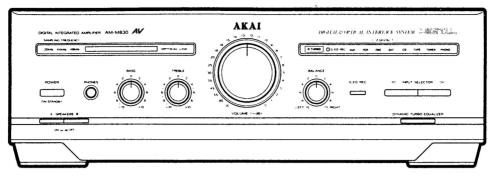
AKAI SERVICE MANUAL



MODEL AM-M830

DIGITAL INTEGRATED AMPLIFIER

MODEL AM-M630 MODEL AM-M830

SPECIFICATIONS

	AM-M830	AM-M630
Power output		
	54 W x 2 (6 ohms, 40 Hz to 20 kHz, THD 0.5 %)	42 W x 2 (6 ohms, 40 Hz to 20 kHz, THD 0.5 %)
DIN		50 W x 2 (6 ohms)
EIAJ		65 W x 2 (6 ohms)
Music		220 W
PMPO		750 W
	10 Hz to 50 kHz (THD 0.1 %)	10 Hz to 50 kHz (THD 0.1 %)
Total harmonic distortion		0.06 % (1 kHz)
Phono max. input level		55 mV (1 kHz)
	10 Hz to 100 kHz (-1.5 dB, -6.0 dB)	10 Hz to 100 kHz (-1.5 dB, -6.0 dB)
Tone control	10 112 to 100 km2 (1.5 db, 0.0 db)	10 112 to 100 km2 (=1.5 db, =0.0 db)
Treble	+8 0 dB (10 kHz)	±8.0 dB (10 kHz)
Bass		
S / N ratio (IHF-A)	±0.0 dB (100 Hz)	®8.0 dB (100 Hz)
PHONO (MM)	72 dB	72 dB
Others		
Residual noise		87 dB
		0.5 mV
Channel separation		60 dB (1 kHz)
Damping factor	19.3	20
Required speaker impedance	0 to 40 above	(
A or B		6 to 16 ohms
A and B	12 to 16 onms	
nput sensitivity / impedance	0.114.471.4	
PHONO (MM)		2 mV / 47 kohms
VCR, etc.		180 mV / 47 kohms
Output level / impedance [DAC section]	2/0 mV / 1 kohms	180 mV / 1 kohms
Sampling frequency	32 / 44.1 / 48 kHz	44.1 KHz
Digital filter		4 fs / 16 bit
D / A converter	18 bit / 2 DAC	16 bit / 2 DAC
Digital input level / impedance	, , , , , , , , , , , , , , , , , , , ,	,
OPTICAL	14 to -23 dBm	−14 to −23 dBm
COAXIAL	0.5 Vp-p / 75 ohms	
requency response		20 Hz to 20 kHz \pm 0.5 dB
Dynamic range		93 dB
	0.07 % (1 kHz, 20 kHz LPF)	0.04 % (1 kHz, 20 kHz LPF)
	AC 220 V-230 V, 50 Hz for Europe except UK	AC 220 V-230 V, 50 Hz for Europe except UK
	AC 240 V, 50Hz for UK and Australia	AC 240 V, 50Hz for UK and Australia
	AC 110 /120 / 220 / 240 V, 50 / 60 Hz convertible for	AC 110 /120 / 220 / 240 V, 50 / 60 Hz convertible for
	other countries.	other countries.
Dimensions	360 (W) x 117 (H) x 310 (D) mm	
Weight		360 (W) x 117 (H) x 310 (D) mm
	5.7 Ng	6.3 kg
Standard accessories		
Remote control unit (RC-S600) 1	
Batteries		
Operator's manual		

^{*} For improvement purposes, specifications and design are subject to change without notice.

SAFETY INSTRUCTIONS

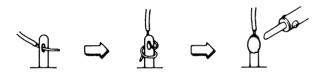
PRECAUTIONS DURING SERVICING

- 1. Parts indentified by the ! (*) symbol are critical for safety. Replace only with parts number specified.
- 2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.

These must also be replaced only with specified replacements.

Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing microswitch (especially in turntable)
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



- 6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- 7. Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resister of 1500 ohms paralleled with a 0.15 μF capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 Mohms.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.



Please leave them at an appropriate depot. All other household batteries can be thrown out with the household waste

★ INFORMATION

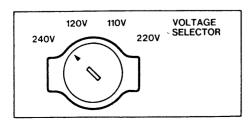
SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	principal Destinations	
В	UK	
E	Europe (except UK)	
S	Australia	
V	Germany	
U	Universal Area	
Y*	Custom version	

VOLTAGE CONVERSION (U model only)

Before connecting the power cord, set the VOLTAGE SE-LECTOR located on the rear panel so that the correct voltage for your area is indicated



PRECAUTION BEFORE / AFTER REPAIRING THE UNIT

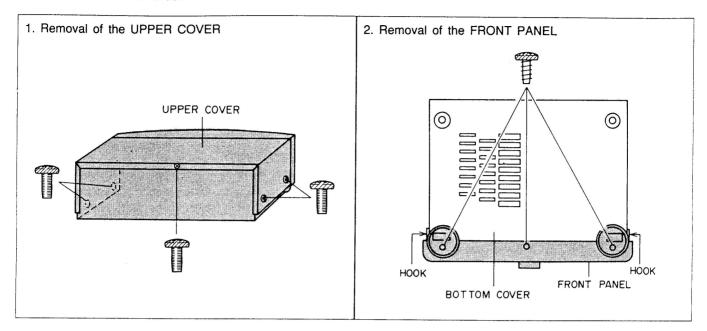
[ABOUT THE POWER SUPPLY]

Power supply of the AM-M630/M830 is controlled by the tuner. Therefore when repair of the AM-M630/M830 is necessary, repair should be made together with the tuner. To repair the AM-M630/M830 without tuner, use the following procedure.

- 1) While pushing the G.E REC button, press the POWER button to turn the power of the AM-M630/M830 on.
- To turn off the power of the AM-M630/M830, the AC power cord must be disconnected.

I. DISASSEMBLY

In case of trouble, etc., necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in reverse order.



II. PRINCIPAL PARTS LOCATION

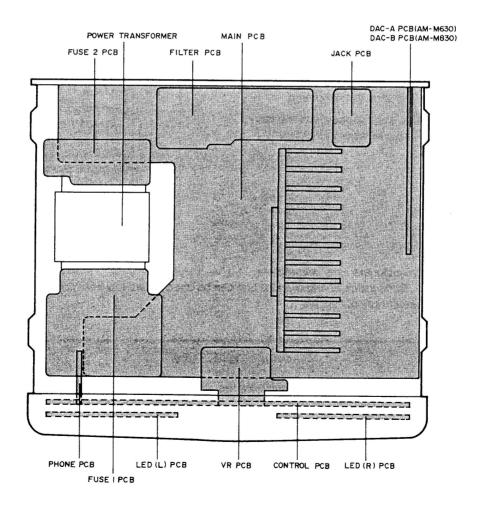


Fig. 2-1 Top view

ATTENTION

- 1. When placing an order for parts, be sure to list Part No., Model No. and the description of eachpart. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
- 2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
- 3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

- 1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
- 2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 4. How to read the Parts List.
 - a) Mechanism Block

2. HEAD BASE BLOCK

Ref. No.	Part No.	Description
1 2 3 4 5	BH-T2023A320A HP-H2206A010A ZS-477876 ZS-536488 ZG-402895	HEAD BASE BLOCK HEAD R/P PR4-8FU C PAN20×03STL CMT BID20×08STL CMT SP CS ANGLE ADJUST
	This	Service Parts) Classification number corresponds with the larts index number in that fig

ith the individ ual parts index number in that figure.

b) PC Board

6. MAIN PC BOARD

Ref. No.	Part No.	Description
IC1 IC2 C1A C1B C1C X1	[A]: AAL (U. [B]: BEAB (E [C]: CSA (Ca [E]: CEE (Eu [J]: JPN (Ja	England) [U]: U/T (Universa Area) anada) urope) [V]: VDE (W. Germany)
These reference symbols correspond with component symbols in the Schematic Diagrams.		

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No.listed at right of Part No.

WARNING

 Δ (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

 Δ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref.No.	Part No.	Description
1	AX-401055M	REMOCON RC-S630
2	*BT-401082J	TRANS POW A2073 BS
0	*BT-401081J	[B,S] [AM-M630] TRANS POW A2073 EV
3	*B1-4010013	[E,V] [AM-M630]
4	*BT-401080J	TRANS POW A2073 U
c	*BT-401086J	[U] [AM-M630] TRANS POW A2074 BS
5	AB1-4010000	[B,S] [AM-M830]
6	*BT-401085J	TRANS POW A2074 EV
-	*BT-401083J	[E,V] [AM-M830] TRANS POW A2074 U
7	*B1-4010633	[U] [AM-M830]
8	ED-403757J	D LED SEL2913 D1,D2 AMBER
9	ED-382365J	D LED SLR-34VC3F RED
10	ED-394416J	D LED SLV-31VT3F RED
11	ED-307572	D SILICON H 1SS131
12	ED-366684	D SILICON H 1SS136 F05
13	ED-394453J	D SILICON H 1SS92T-77 T26
14	*ED-394708J	D SILICON RBA402 200/4.0A
		[AM-M630]
15	*ED-384278J	D SILICON RBV602 200/6.0A
		[AM-M830]
16	*ED-389840J	D SILICON 1SR139-100HS F10
17	ED-394924J	D ZENER H HZS5C1
18	ED-397234J	D ZENER H HZS6A2
19	ED-346558	D ZENER H HZ12B1L
		[U] .
20	ED-346627	D ZENER H HZ33 2
21	ED-346530	D ZENER H HZ6C3L
22	ED-346604	D ZENER H HZ7 B2
23	ED-346540	D ZENER H HZ9B1L FUSE SEMKO T 250V 2.00A
24	*EF-601301	[U]
25	*EF-623125	FUSE SEMKO T 250V 2.50A
23	721 020120	[AM-M630]
26	*EF-691007	FUSE SEMKO T 250V 3.15A
		[AM-M830]
27	*EF-690996	FUSE SEMKO T 250V 4.00A
28	*EF-668474	FUSE SEMKO T 250V 400MA
29	*EF-601942	FUSE SEMKO T 250V 630MA
30	*EF-258344	FUSE SEMKO T 250V 800MA
31	EI-367572	IC BA15218
32	EI-382660J	IC BA15218-DX
33	EI-373980	IC BA15218N
34	EI-400942J	IC LC6520C-4649 FX2AMP1
35	EI-401087J	IC LC78820
36	EI-393323J	IC M5218AL-771
37	EI-401056J	IC PD0029
38	EI-390594J	IC PD0052
39	El-403229J	IC PD0060
40	*EI-358554	IC STK4152II
		[AM-M630] IC STK4172II
41	*EI-366695	[AM-M830]
40	EI-302233	IC TC4051BP
42	El-332259	IC TC4052BP
43	E1-002203	[AM-M830]
44	EI-200573	IC TC4053BP
45	EI-360040J1	IC TC74HCU04AP
45 46	El-394518J	IC UPD6376CX
47	El-719635	OSC CE KBR-4.19M 4.19MHZ
48	EJ-394459J	SOCKET OPTICAL GP1F32R
49	*EQ-394450J	RELAY POW DG12D1-O(M) 12V
40		run
50	*ER-200746	B FUSE H ERD2FC 1/4W 1000G
51	*ER-332225	B FLISE H S10 ERD2FC 1/4W 56R0G
52	*ER-331188	R FUSE H S10 ERD2FC 1/4W 8R2J
53	ES-394512J	SW PUSH SPEA12 02-02N
~ ~		[AM-M830]
54	*ES-349070	SW SELECTOR YKS11-0002 02-4
		[U] [SW901]
55	ES-394736J	SW TACT SOA-133HS

Ref.No.	Part No.	Description
56	ET-356336	TR DTA114ES
57	ET-363953	[U] TR DTA114TS
58	ET-369248	TR DTA114YS
59	ET-373382	TR DTA143ZS
60	ET-354365	TR DTC114YS
61	ET-373485	TR DTC123JS
62	ET-354371	TR DTC124ES
63	ET-373392	TR DTC124XS
64	ET-354364	TR DTC143TS
65	ET-373391	TR DTC143ZS
66	ET-354414	TR DTC144ES
67	ET-749377	TR 2SA1048 GR
68	ET-394555J	TR 2SA1515 Q,R
69	ET-366365	TR 2SB1185 E,F
		[U]
70	ET-373210	TR 2SB1187 E,F
71	ET-749375	TR 2SC2458 GR
72	ET-380685J	TR 2SD1761 E,F,G
73	ET-373025	TR 2SD1944 J1,J2,K
74	ET-401091J	TR 2SD2144S U,V,W T05
75	EV-401089J	VR ROTARY RK11K113 L=30 SP104
76	EV-401088J	VR ROTARY RK14K1230 L30 B103X2
77	EV-400827J	VR SPL RK16Y12MA B104X2

2. P.C BC	DARD		Ref.No.	Part No.	Description
5 (1)	n	- December -	D1	ED-394453J	D SILICON H 1SS92T-77 T26
Ref.No.	Part No	o.Description	D2 D101	ED-346604 *ED-389840J	D ZENER H HZ7 B2 D SILICON 1SR139-100HS F10
1A	BA-A2068A020G	PC(#) MAIN AMP BLK AM-M630(U)	D102	*ED-389840J	D SILICON 1SR139-100HS F10
1B	BA-A2068A020H	[U] [AM-M630] PC(#) MAIN AMP BLK AM-M630(E)	D103	*ED-389840J	D SILICON 1SR139-100HS F10
10	B/1 /12000/1020/1	[E] [AM-M630]	D104 D105	*ED-389840J ED-346540	D SILICON 1SR139-100HS F10 D ZENER H HZ9B1L
1C	BA-A2068A020J	PC(#) MAIN AMP BLK AM-M630(V)	D106	ED-346540	D ZENER H HZ9B1L
1D	BA-A2068A020K	[V] [AM-M630] PC(#) MAIN AMP BLK AM-M830(U)	D109	*ED-389840J	D SILICON 1SR139-100HS F10
10	B/ / /2000/ 1020/	[U] [AM-M830]	D110 D111	*ED-389840J *ED-389840J	D SILICON 1SR139-100HS F10 D SILICON 1SR139-100HS F10
1E	BA-A2068A020L	PC(#) MAIN AMP BLK AM-M830(E)	D112	*ED-389840J	D SILICON 1SR139-100HS F10
1F	BA-A2068A020M	[E] [AM-M830] PC(#) MAIN AMP BLK AM-M830(V)	D113	ED-346530	D ZENER H HZ6C3L
••		[V] [AM-M830]	D115 D116	*ED-389840J *ED-389840J	D SILICON 1SR139-100HS F10 D SILICON 1SR139-100HS F10
2A	BA-A2068A040C	PC DAC-A BLK AM-M630(U)	D117	*ED-389840J	D SILICON 1SR139-100HS F10
2B	BA-A2068A040D	[U] [AM-M630] PC DAC-A BLK AM-M630(V)	D118	*ED-389840J	D SILICON 1SR139-100HS F10
25	271712000710702	[V] [AM-M630]	D119 D120	*ED-389840J *ED-389840J	D SILICON 1SR139-100HS F10 D SILICON 1SR139-100HS F10
2C	BA-A2074A040A	PC DAC-B BLK AM-M830(U)	D121	ED-346627	D ZENER H HZ33 2
2D	BA-A2074A040B	[U] [AM-M830] PC DAC-B BLK AM-M830(V)	D122	ED-346540	D ZENER H HZ9B1L
20	BA-A2074A040B	[V] [AM-M830]	D123A	*ED-394708J	D SILICON RBA402 200/4.0A [AM-M630]
3A	BA-A2073A030A	PC(#)CONTROL BLK AM-M630(U)	D123B	*ED-384278J	D SILICON RBV602 200/6.0A
20	DA A2072A020B	[U] [AM-M630] PC(#)CONTROL BLK AM-M630(V)			[AM-M830]
3B	BA-A2073A030B	[V] [AM-M630]	D124 D125	ED-346530 ED-346540	D ZENER H HZ6C3L D ZENER H HZ9B1L
3C	BA-A2073A030C	PC(#)CONTROL BLK AM-M830(U)	F101A	*EF-623125	FUSE SEMKO T 250V 2.50A
00	DA 400724020D	[U] [AM-M830]			[AM-M630]
3D	BA-A20/3A030D	PC(#)CONTROL BLK AM-M830(V) [V] [AM-M830]	F101B	*EF-691007	FUSE SEMKO T 250V 3.15A [AM-M830]
			FR1	*ER-200746	R FUSE H ERD2FC 1/4W 1000G
PC (#) M	MAIN AMP BLK	CONSISTS OF FOLLOWING P.C	FR2 FR101	*ER-200746 *ER-331188	R FUSE H ERD2FC 1/4W 1000G R FUSE H S10 ERD2FC 1/4W 8R2J
BOARD.			FR102	*ER-332225	R FUSE H S10 ERD2FC 1/4W 56R0G
	MP P.C BOARD)	IC1	EI-382660J	IC BA15218-DX
	P.C BOARD R P.C BOARD		IC2 IC3	EI-302233 EI-302233	IC TC4051BP IC TC4051BP
	1 P.C BOARD		IC4	EI-200573	IC TC4053BP
	2 P.C BOARD		IC5	EI-200573	IC TC4053BP
			IC6	EI-367572	IC BA15218
PC (#) (BOARD.	CONTROL BLK	CONSISTS OF FOLLOWING P.C	IC7	El-367572	IC BA15218 [AM-M830] IC TC4052BP
	ROL P.C BOARD BOARD)	IC8	El-332259	[AM-M830]
• LED (L) P.C BOARD) P.C BOARD		IC101A	*EI-358554	IC STK4152II [AM-M630]
	E P.C BOARD		IC101B	*EI-366695	IC STK4172II [AM-M830] PIN J YKC21-3050 SEALED 6P
			J1A	EJ-394438J	[U,E]
			J1B	EJ-394437J	PIN J YKC21-3036 6P [V] PIN J YKC21-3034 4P
			J2A J2B	EJ-394436J EJ-394437J	[AM-M630] PIN J YKC21-3036 6P
				EJ-3944373	[AM-M830] SOCKET 52303-1511 15P
			J3 J4	EJ-394442J	SOCKET 52303-1311 13P
			L101	EO-394520J	COIL FIX 2 *0708-1197
			R110	ER-333023	R OMF H S20 FS 2W 100J
			R111 TM1A	ER-333023 EJ-349417	R OMF H S20 FS 2W 100J TERMINAL LEVER YKD21-0026 4P
			TM1B	EJ-349401	[AM-M630] TERMINAL LEVER YKD21-0027 8P
3. MAIN	AMP P.C BO	ARD	TR1	ET-401091J	[AM-M830] TR 2SD2144S U,V,W T05
Ref.No.	Part No.	Description	TR2	ET-401091J	TR 2SD2144S U,V,W T05
		•	TR4	ET-369248	TR DTA114YS
C115A	EC-394535J	C EC V CUT SME 332M 40.0DC [AM-M630]	TR5 TR6	ET-373392 ET-354371	TR DTC124XS TR DTC124ES
C115B	EC-394534J	C EC V CUT SME 472M 50.0DC	TR101	ET-354371	TR DTC124ES
		[AM-M830]	TR102	ET-380685J	TR 2SD1761 E,F,G
C116A	EC-394535J	C EC V CUT SME 332M 40.0DC	TR103	ET-373210	TR 2SB1187 E,F
C116B	EC-394534J	[AM-M630] C EC V CUT SME 472M 50.0DC	TR104 TR105	ET-373025 ET-373210	TR 2SD1944 J1,J2,K TR 2SB1187 E,F
335		[AM-M830]	TR106	ET-749377	TR 2SA1048 GR

4. DAC-A P.C BOARD (AM-M630)

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D3	ED-397234J	D ZENER H HZS6A2
D4	ED-307572	D SILICON H 1SS131
D5	ED-307572	D SILICON H 1SS131
FL1	EH-386589J	FILTER EMI FBA04HA600AB-00 T26
		[V]
FL2	EH-386589J	FILTER EMI FBA04HA600AB-00 T26
		[V]
FL3	EH-386589J	FILTER EMI FBA04HA600AB-00 T26
		[V]
FL4	EH-395074J	FILTER EMI FBA04HA600VB-00 T05
		[V]
IC1	El-390594J	IC PD0052
IC2	El-401056J	IC PD0029
IC3	El-394518J	IC UPD6376CX
IC4	EI-393323J	IC M5218AL-771
J1	EJ-394459J	SOCKET OPTICAL GP1F32R
TR1	ET-749375	TR 2SC2458 GR
TR2	ET-373392	TR DTC124XS
TR3	ET-369248	TR DTA114YS
TR4	ET-373391	TR DTC143ZS
TR5	ET-369248	TR DTA114YS
TR6	ET-373391	TR DTC143ZS
TR7	ET-394555J	TR 2SA1515 Q,R
TR8	ET-749375	TR 2SC2458 GR
TR9	ET-749375	TR 2SC2458 GR
TR10	ET-749375	TR 2SC2458 GR
TR11	ET-749375	TR 2SC2458 GR
TR12	ET-373485	TR DTC123JS
TR13	ET-354414	TR DTC144ES
TR14	ET-373485	TR DTC123JS

5. DAC-B P.C BOARD (AM-M830)

Ref.No.	Part No.	Description
D201	ED-307572	D SILICON H 1SS131
D301	ED-394924J	D ZENER H HZS5C1
D481	ED-307572	D SILICON H 1SS131
D482	ED-307572	D SILICON H 1SS131
FL601	EH-386589J	FILTER EMI FBA04HA600AB-00 T26
FL602	EH-386589J	FILTER EMI FBA04HA600AB-00 T26 [V]
FL603	EH-386589J	FILTER EMI FBA04HA600AB-00 T26
FL604	EH-395074J	FILTER EMI FBA04HA600VB-00 T05
		[V]
IC101	El-360040J1	IC TC74HCU04AP
IC201	EI-390594J	IC PD0052
IC301	EI-403229J	IC PD0060
IC302	EI-401087J	IC LC78820
IC401	EI-393323J	IC M5218AL-771
IC402	El-393323J	IC M5218AL-771
J101	EJ-394459J	SOCKET OPTICAL GP1F32R
J102A	EJ-390593J	PIN J *A2076-2 3P [U]
J102B	EJ-394461J	PIN J *A2076-1 3P
31020	L0-0344010	[V]
T101	BT-368261	TRANS PULSE TC-1027-04
TR301	ET-354414	TR DTC144ES
TR401	ET-354364	TR DTC143TS
TR402	ET-749375	TR 2SC2458 GR
TR451	ET-354364	TR DTC143TS
TR452	ET-749375	TR 2SC2458 GR
TR481	ET-354365	TR DTC114YS
TR482	ET-373382	TR DTA143ZS
TR483	ET-373392	TR DTC124XS
TR484	ET-369248	TR DTA114YS

6. CONTROL P.C BOARD

Ref.No.	Part No.	Description
D181	ED-307572	D SILICON H 1SS131
D181	ED-307572	D SILICON H 1SS131
D102	ED-307572	D SILICON H 1SS131
D202	ED-307572	D SILICON H 1SS131
D203	ED-307572	D SILICON H 1SS131
D204	ED-307572	D SILICON H 1SS131
IC101	EI-373980	IC BA15218N
IC102	EI-373980	IC BA15218N
IC201	EI-400942J	IC LC6520C-4649 FX2AMP1
SW301	ES-394512J	SW PUSH SPEA12 02-02N
		[AM-M830]
SW302	ES-394512J	SW PUSH SPEA12 02-02N
		[AM-M830]
TR101	ET-401091J	TR 2SD2144S U,V,W T05
TR151	ET-401091J	TR 2SD2144S U,V,W T05
TR181	ET-354365	TR DTC114YS
TR182	ET-373392	TR DTC124XS
TR183	ET-369248	TR DTA114YS
TR201	ET-354365	TR DTC114YS
TR202	ET-354365	TR DTC114YS
TR203	ET-354365	TR DTC114YS
TR204	ET-749377	TR 2SA1048 GR
TR205	ET-363953	TR DTA114TS
TR206	ET-363953	TR DTA114TS
TR207	ET-363953	TR DTA114TS
TR208	ET-363953	TR DTA114TS
TR209	ET-749375	TR 2SC2458 GR
TR210	ET-373391	TR DTC143ZS
TDO44	ET 05 4005	[AM-M830] TR DTC114YS
TR211	ET-354365	TR DTC1445
TR212 TS201	ET-354414 ES-394736J	SW TACT SOA-133HS
TS201	ES-394736J	SW TACT SOA-133HS
TS202	ES-394736J	SW TACT SOA-133HS
TS203	ES-394736J	SW TACT SOA-133HS
TS204	ES-394736J	SW TACT SOA 133HS
13203	L3-3347300	[AM-M830]
VR101	EV-401088J	VR ROTARY RK14K1230 L30 B103X2
VR102	EV-401088J	VR ROTARY RK14K1230 L30 B103X2
VR103	EV-401089J	VR ROTARY RK11K113 L=30 SP104
X201	El-719635	OSC CE KBR-4.19M 4.19MHZ

7. VR P.C BOARD

Ref.No.	Part No.	Description
D401	ED-366684	D SILICON H 1SS136 F05
TR401	ET-749377	TR 2SA1048 GR
TR402	ET-749377	TR 2SA1048 GR
TR403	ET-749375	TR 2SC2458 GR
TR404	ET-749375	TR 2SC2458 GR
VR401	EV-400827J	VR SPL RK16Y12MA B104X2

8. LED (L) P.C BOARD

Ref.No.	Part No.	Description
D501	ED-394416J	D LED SLV-31VT3F RED
D502	ED-394416J	D LED SLV-31VT3F RED
D503	ED-394416J	D LED SLV-31VT3F RED
D504	ED-394416J	D LED SLV-31VT3F RED
D505	ED-403757J	D LED SEL2913 D1,D2 AMBER
D506	ED-403757J	D LED SEL2913 D1,D2 AMBER
D507	ED-403757J	D LED SEL2913 D1,D2 AMBER
		[AM-M830]
D508	ED-403757J	D LED SEL2913 D1,D2 AMBER
		[AM-M830]
D509	ED-403757J	D LED SEL2913 D1,D2 AMBER
		[AM-M830]

9. LED (R) P.C BOARD

Ref.No.	Part No.	Description
D601	ED-403757J	D LED SEL2913 D1,D2 AMBER [AM-M830]
D602	ED-403757J	D LED SEL2913 D1,D2 AMBER [AM-M830]
D603	ED-382365J	D LED SLR-34VC3F RED
D604	ED-403757J	D LED SEL2913 D1,D2 AMBER
		[AM-M830]
D605	ED-403757J	D LED SEL2913 D1,D2 AMBER
		[AM-M830]
D606	ED-403757J	D LED SEL2913 D1,D2 AMBER
		[AM-M830]
D607	ED-403757J	D LED SEL2913 D1,D2 AMBER
D608	ED-403757J	D LED SEL2913 D1,D2 AMBER
D609	ED-403757J	D LED SEL2913 D1,D2 AMBER
D610	ED-403757J	D LED SEL2913 D1,D2 AMBER
D611	ED-403757J	D LED SEL2913 D1,D2 AMBER

10. PHONE P.C BOARD

Ref.No.	Part No.	Description
J701A	EJ-394455J	PHONE J 3P YKB21-5006 6.3 [AM-M630]
J701B	EJ-355011	PHONE J 3P YKB21-5010 6.3 [AM-M830]
R701 R751	ER-325843 ER-325843	R OMF H S15 FS 1W 391J R OMF H S15 FS 1W 391J

11. JACK P.C BOARD

Ref.No.	Part No.	Description
J201	EJ-394445J	SOCKET 52303-1411 14P

12. FILTER P.C BOARD

Ref.No.	Part No.	Description
C301	*EC-320548	C CE V F 103Z 250AC
D301	ED-346558	D ZENER H HZ12B1L [U]
D302	ED-307572	D SILICON H 1SS131
D303	ED-307572	D SILICON H 1SS131
D304	ED-307572	D SILICON H 1SS131
F301	*EF-601301	FUSE SEMKO T 250V 2.00A
F302	*EF-601301	[U] FUSE SEMKO T 250V 2.00A
J301	*EJ-384277J	[U] SOCKET OUTLET M7037 2P
L301	*EO-338409	[U] COIL LF FKOB160MH02 250UH
RL301	*EQ-394450J	RELAY POW DG12D1-O(M) 12V
TR301	ET-356336	TR DTA114ES
TR302	ET-354371	[U] TR DTC124ES
TR303	ET-749375	[U] TR 2SC2458 GR [U]
TR304	ET-366365	TR 2SB1185 E,F

13. FUSE-1 P.C BOARD

Ref.No.	Part No.	Description
F401	*EF-690996	FUSE SEMKO T 250V 4.00A
F402	*EF-690996	FUSE SEMKO T 250V 4.00A

Ref.No.	Part No.	Description
F403	*EF-668474	FUSE SEMKO T 250V 400MA
F404	*EF-668474	FUSE SEMKO T 250V 400MA
F405	*EF-601942	FUSE SEMKO T 250V 630MA

14. FUSE-2 P.C BOARD

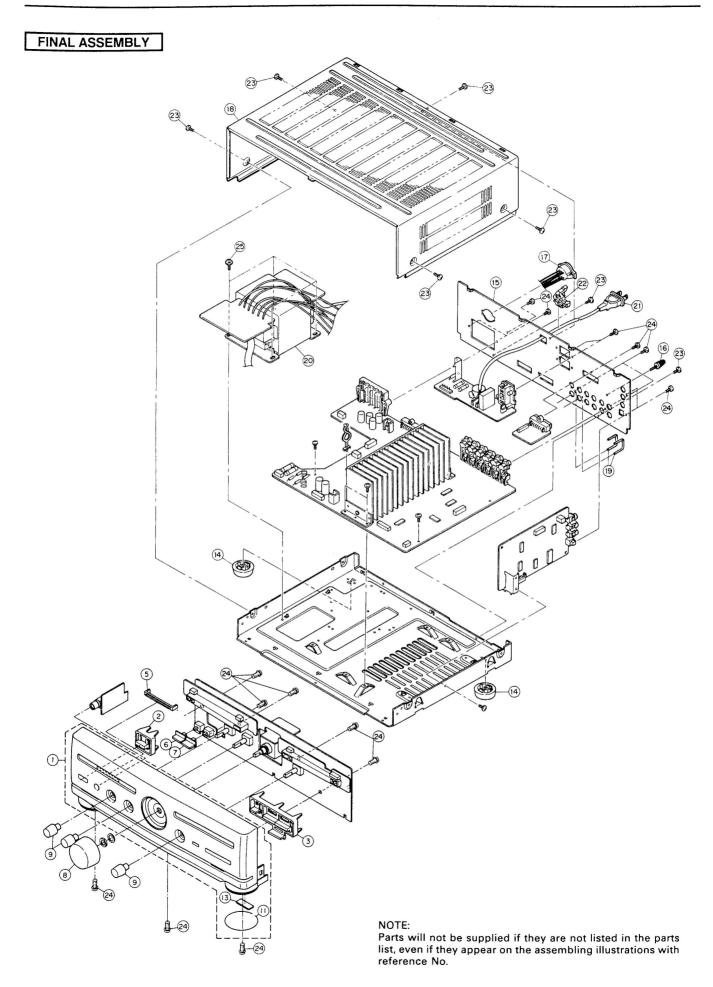
Ref.No.	Part No.	Description
F406	*EF-258344	FUSE SEMKO T 250V 800MA
F407	*EF-258344	FUSE SEMKO T 250V 800MA
F408	*EF-601301	FUSE SEMKO T 250V 2.00A

15. FINAL ASSEMBLY

ĺ	Ref.No.	Part No.	Description
	1A	BD-A2073A050A	PANEL FRONT BLK AM-M630-B
	1B	BD-A2073A050B	PANEL FRONT BLK AM-M830-B
	2	SK-401821M	BUTTON POWER
	3A	SK-401822M	BUTTON OPERATION-A
			[AM-M630]
	3B	SK-401823M	BUTTON OPERATION-B
		O. 101020	[AM-M830]
	5	SE-394119M	LENS OPTICAL
	6	SK-401824M	BUTTON SP(L)
	-	*** ***	[AM-M830]
	7	SK-401825M	BUTTON SP(R)
	•		[AM-M830]
	8	SK-401829M	KNOB VR
	9	SK-401830M	KNOB TONE
	- 11	SZ-401762M	RING FOOT
	13	SA-394136M	CUSHION FOOT
	14	SA-394127M1	FOOT REAR
	15A	SP-401812M	PANEL REAR AM-M630(U)
	15B	SP-401813M	PANEL REAR AM-M630(E)
	15C	SP-401814M	PANEL REAR AM-M630(V)
	15D	SP-401816M	PANEL REAR AM-M630(B)
	15E	SP-401817M	PANEL REAR AM-M830(U)
	15F	SP-401818M	PANEL REAR AM-M830(E)
	15G	SP-401819M	PANEL REAR AM-M830(V)
	15H	SP-401820M	PANEL REAR AM-M830(B)
	16	EJ-394538J	TERMINAL W/S 0033-208-0-00
	17	*ES-349070	SW SELECTOR YKS11-0002 02-4
			[U] [SW901]
	18	SP-394094M	COVER UPPER AM
	19	EJ-394657J	PLUG SHORT-PIN CNT31-0074
	20A	*BT-401080J	TRANS POW A2073 U
			[U] [AM-M630]
	20B	*BT-401081J	TRANS POW A2073 EV
			[E,V] [AM-M630]
-	20C	*BT-401082J	TRANS POW A2073 BS
	205	1.DT 4040001	[B,S] [AM-M630]
	20D	*BT-401083J	TRANS POW A2074 U
	005	NOT 4040051	[U] [AM-M830]
	20E	*BT-401085J	TRANS POW A2074 EV
	20F	*BT-401086J	[E,V] [AM-M830] TRANS POW A2074 BS
	201	↑D1-401000J	[B,S] [AM-M830]
	21A	*EW-374894	AC CORD 2C VM-0129A,VFF U/T
	217	TEVV-374034	[U]
	21B	*EW-347897	AC CORD 2 CORES VM0364,LCFL EV
	210	-1-CVV 047007	[E,V]
	21C	*EW-346249	AC CORD 2 CORES LCFL2X0.75 B
	_, _	. 211 0 102 10	[B]
	21D	*EW-347898	AC CORD 2 CORES VM-0436,LCFL S
	_		[S]
;	22	*EZ-371605	BUSH CORD 2271
:	23	ZS-387983J	ST BID30X08STL BNI EARTH LOCK
	24	ZS-331182	BT BID30X08STL BNI
	25	ZS-346742	ST BID40X08STL CMT CUP

16. ACCESSARY

Ref.No.	Part No.	Description
1	AX-401055M	REMOCON RC-S630



NOTE

- PARTS LIST -

ABBREVIATIONS (AMPLIFIER)

ABBREVIATION	EXPLANATION
A	Analog
AC	Alternating Current
AMP	AMPlifier
CD	Compact Disc
СОМ	COMmon
D	Digital
D/A	Digital to Analog
DAC	Digital to Analog Converter
DAT	Digital Audio Tape recorder
DC	Direct Current
GND	GrouND
L	Left
LED	Light Emitting Diode
MC	Moving Coil
ММ	Moving Magnet
РСВ	Printed Circuit Board
R	Right
REG	REGulator
REC	RECord
TR	TRansistor
sw	SWitch
V.AMP	Voltage AMPlifier
V.DISC	Video DISC
VR	Variable Resistance
VTR	Video Tape Recorder

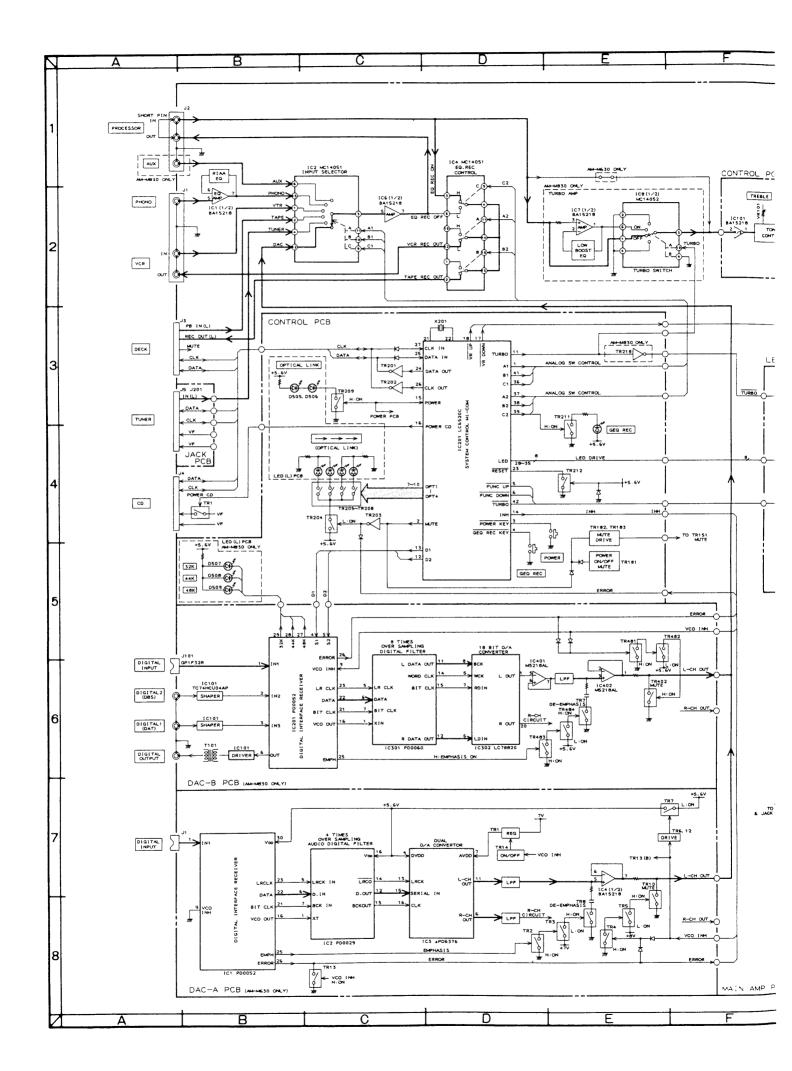
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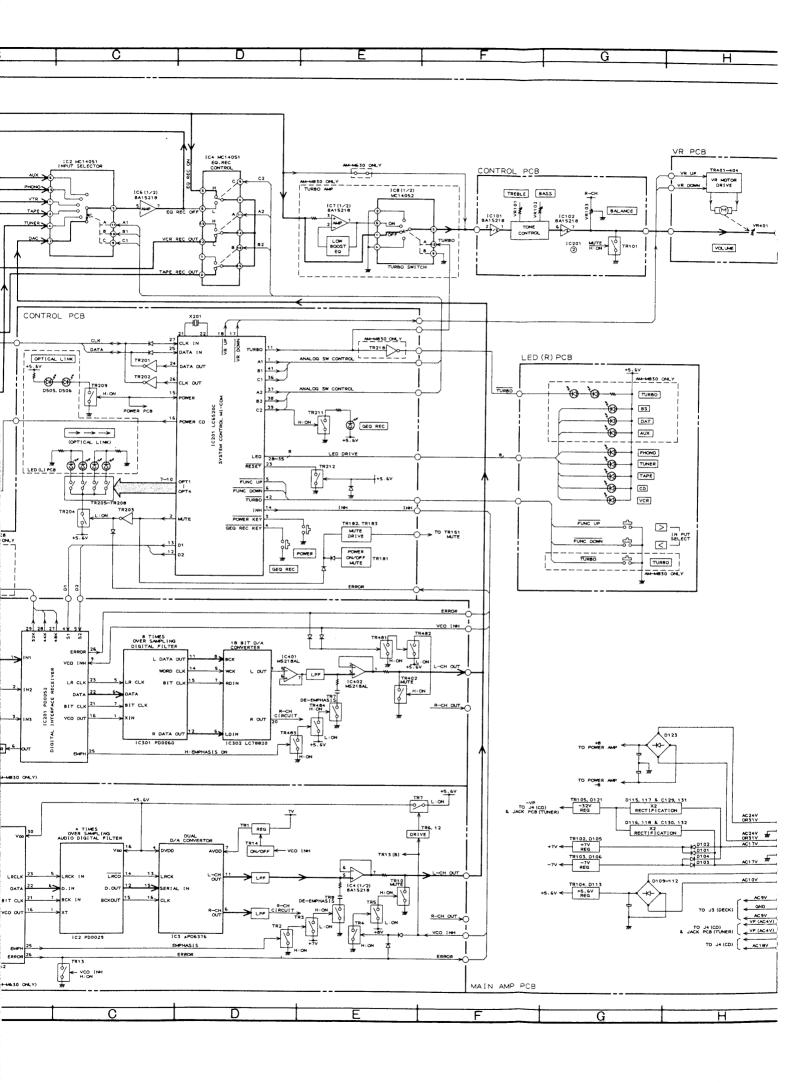
MODEL AM-M630 MODEL AM-M830

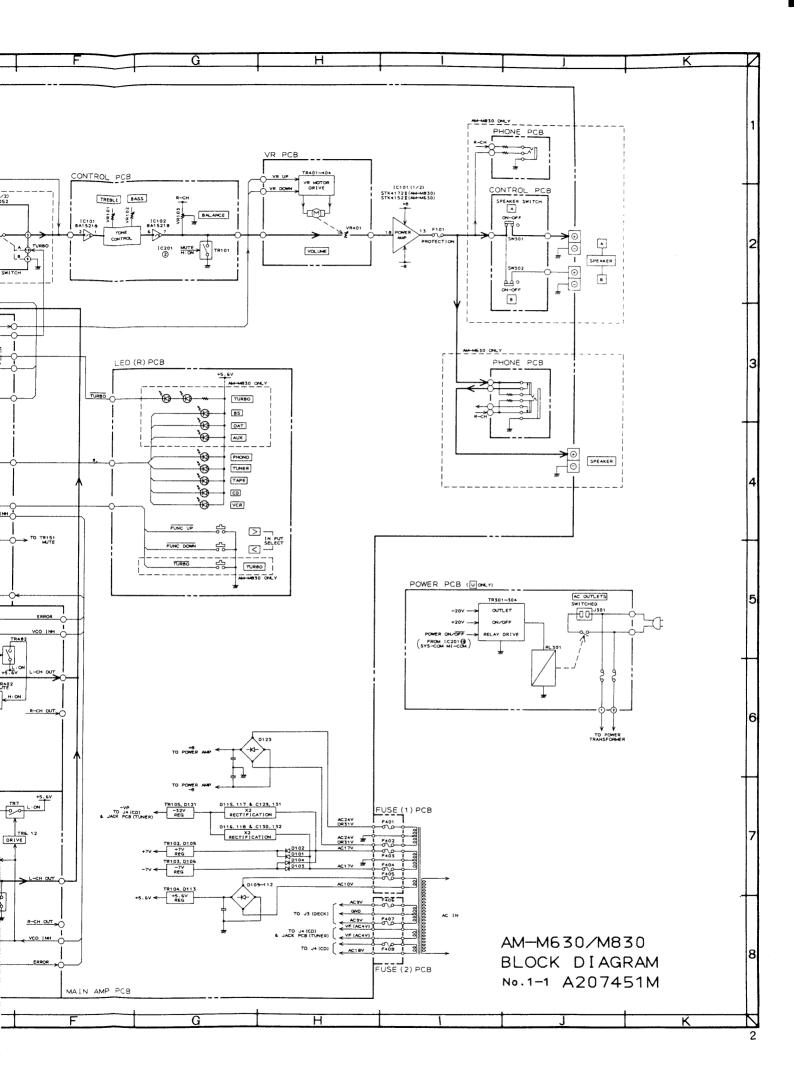
SCHEMATIC DIAGRAMS AND PC BOARDS

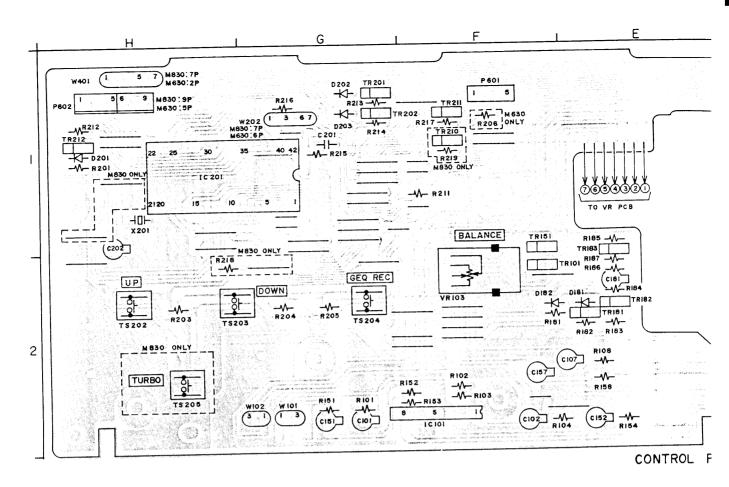
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	CONTROL SCHEMATIC DIAGRAM	
	CONTROL AND OTHER PC BOARDS	
	AM-M630 DAC-A SCHEMATIC DIAGRAM	
	DAC-A PC BOARD	
	DAC-B PC BOARD	
	AM-M830 DAC-B SCHEMATIC DIAGRAM	
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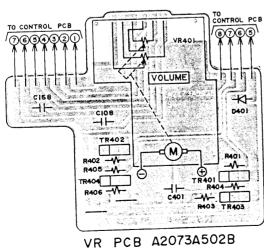


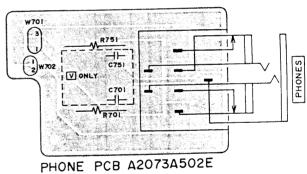




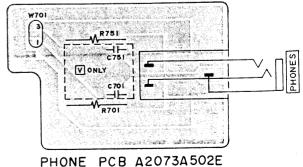
PRINCIPAL PARTS LOCATION

IC102	PR101 F2 PR151 F2 PR151 F2 PR181 E2 PR182 E2 PR183 E2 PR201 G1 PR202 G1 PR203 B1 PR204 B1 PR205 B1 PR206 B1 PR207 C1 PR208 C1 PR209 C1 PR210 F1 PR211 F1
W301B2 W302B2 W401H1	rR209C1

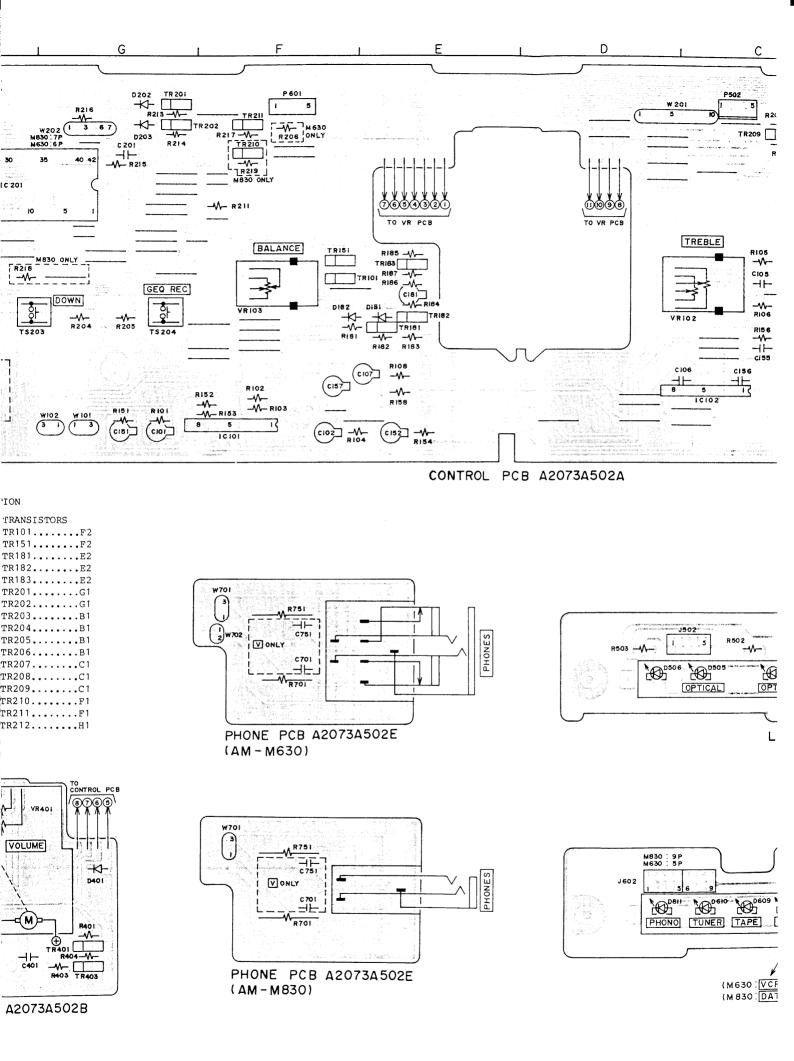


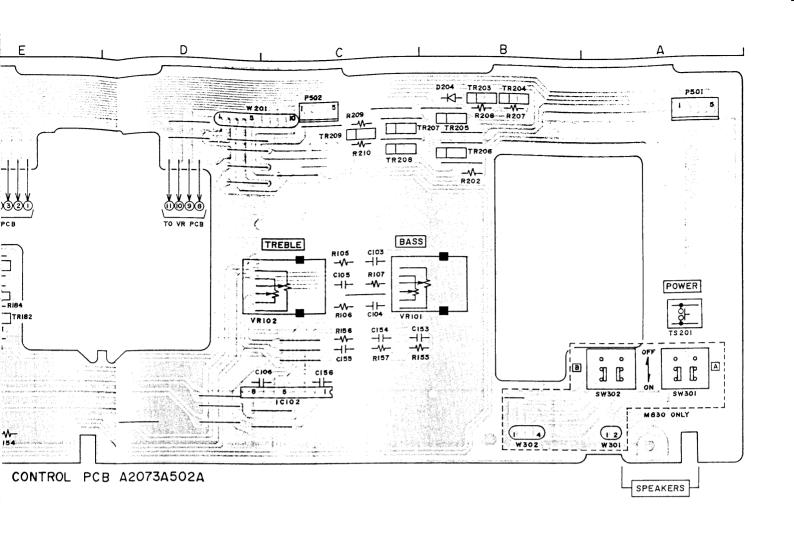


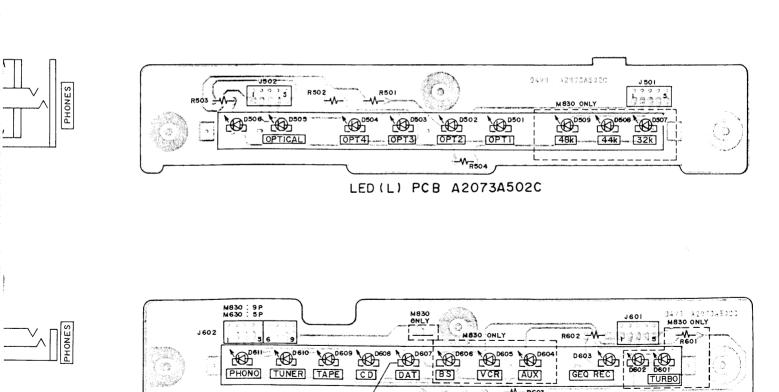
(AM-M630)



PHONE PCB A2073A502E (AM - M830)







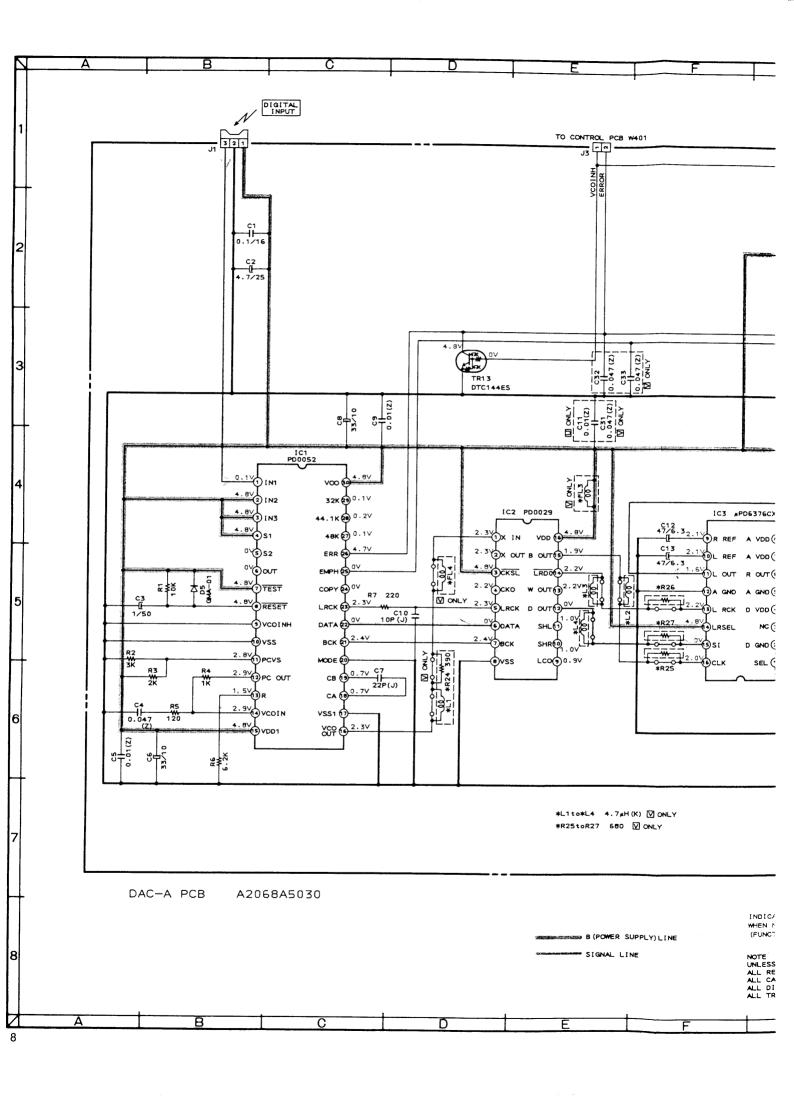
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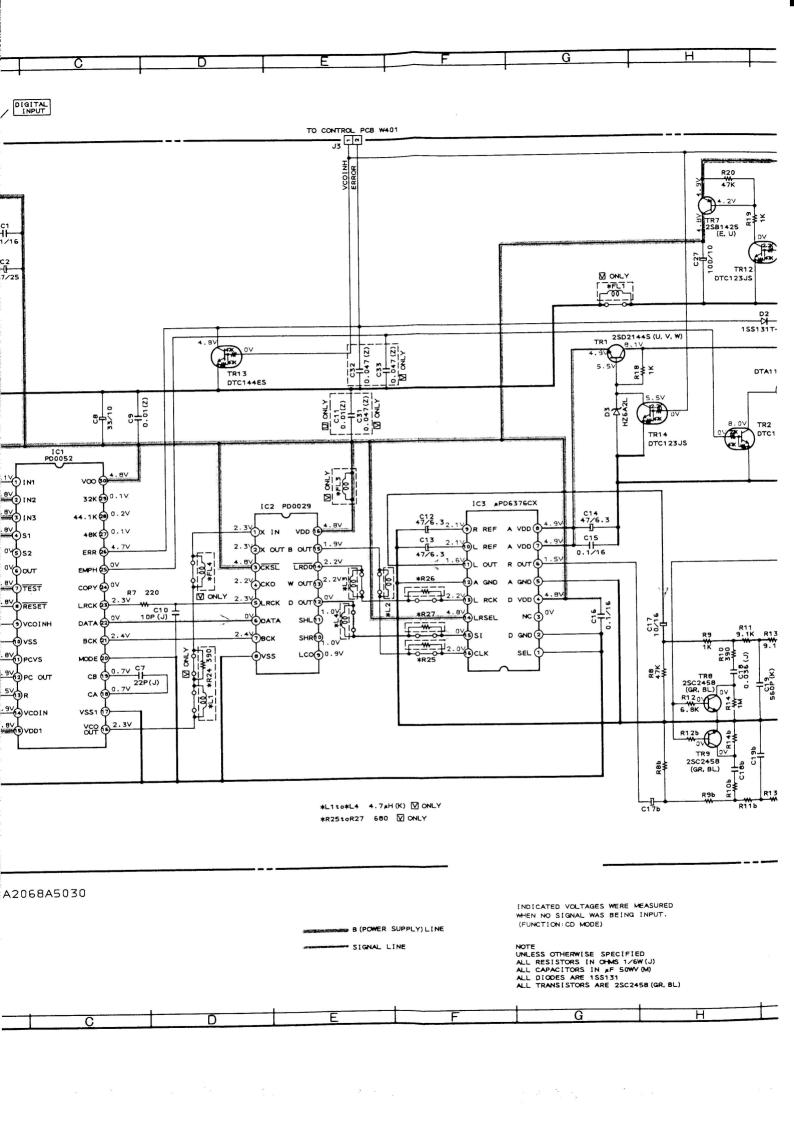
(M630:VCR) (M830:DAT)

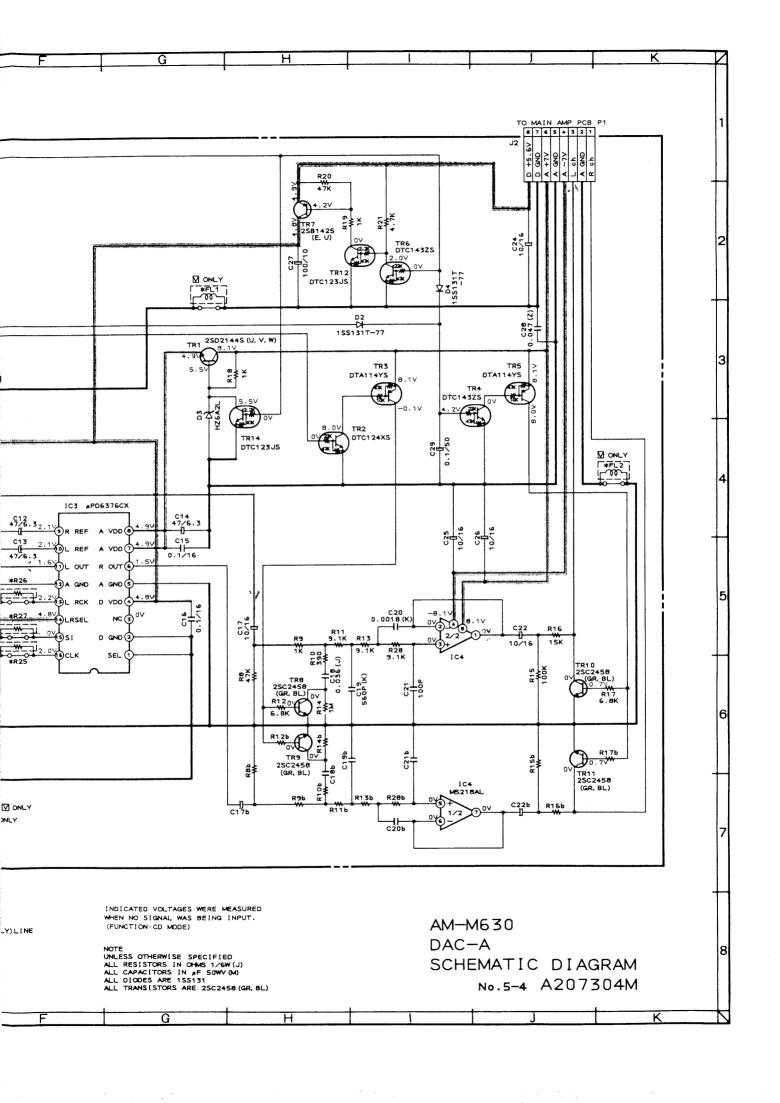
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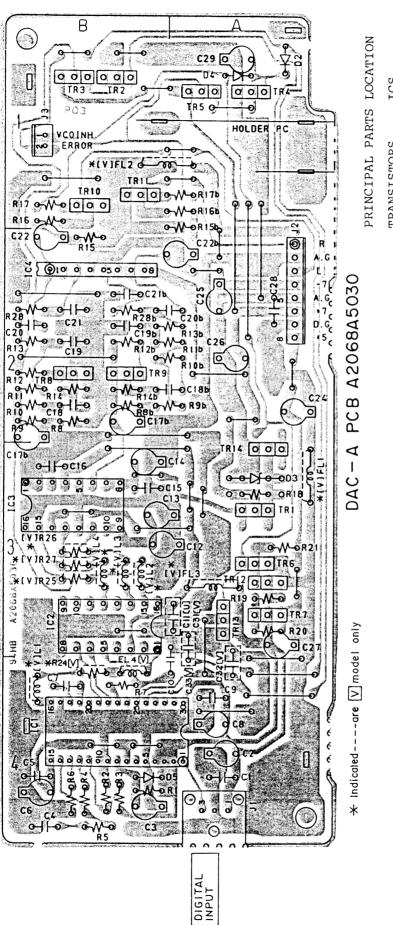
LED(R) PCB A2073A502D

GEQ REC

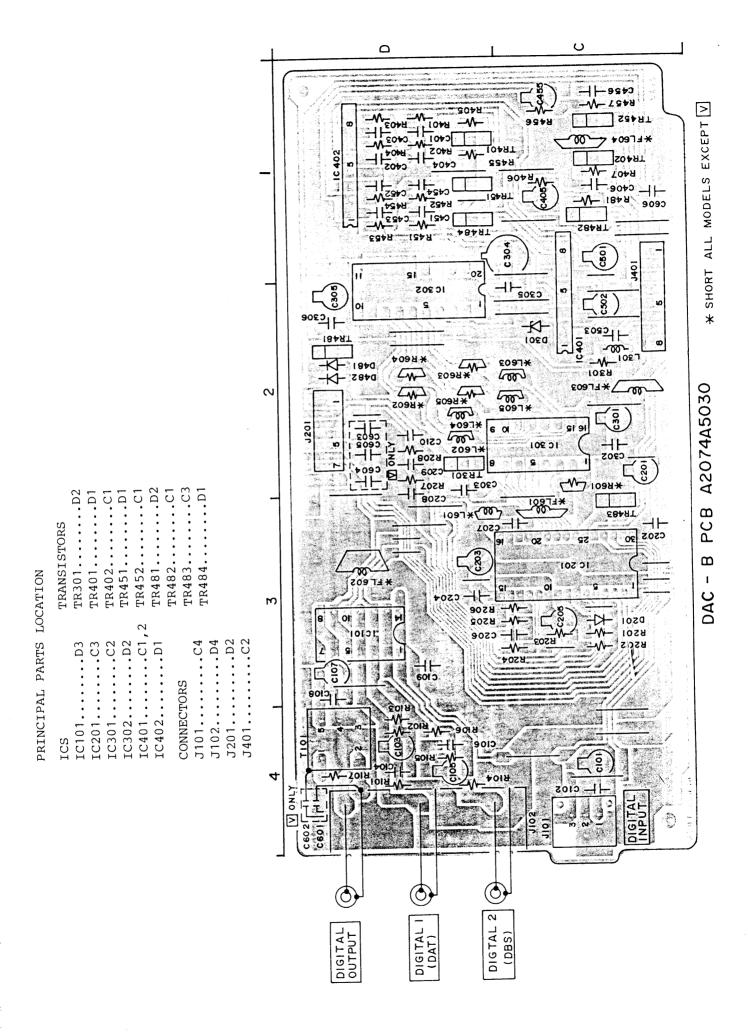


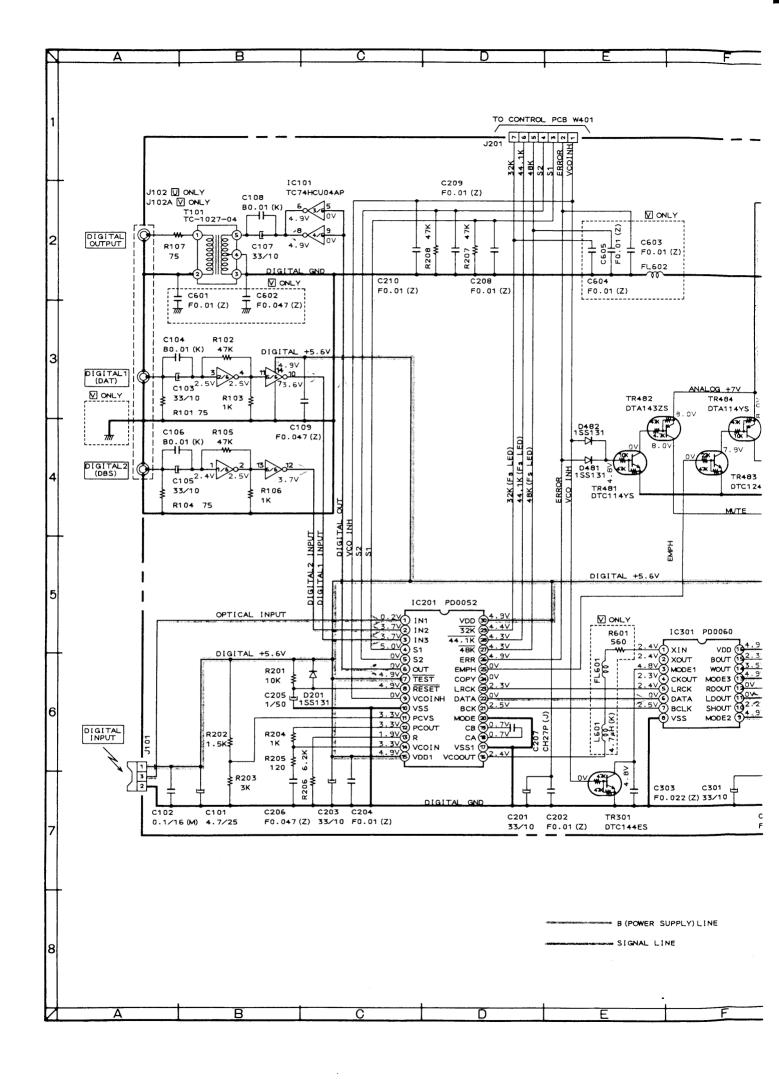


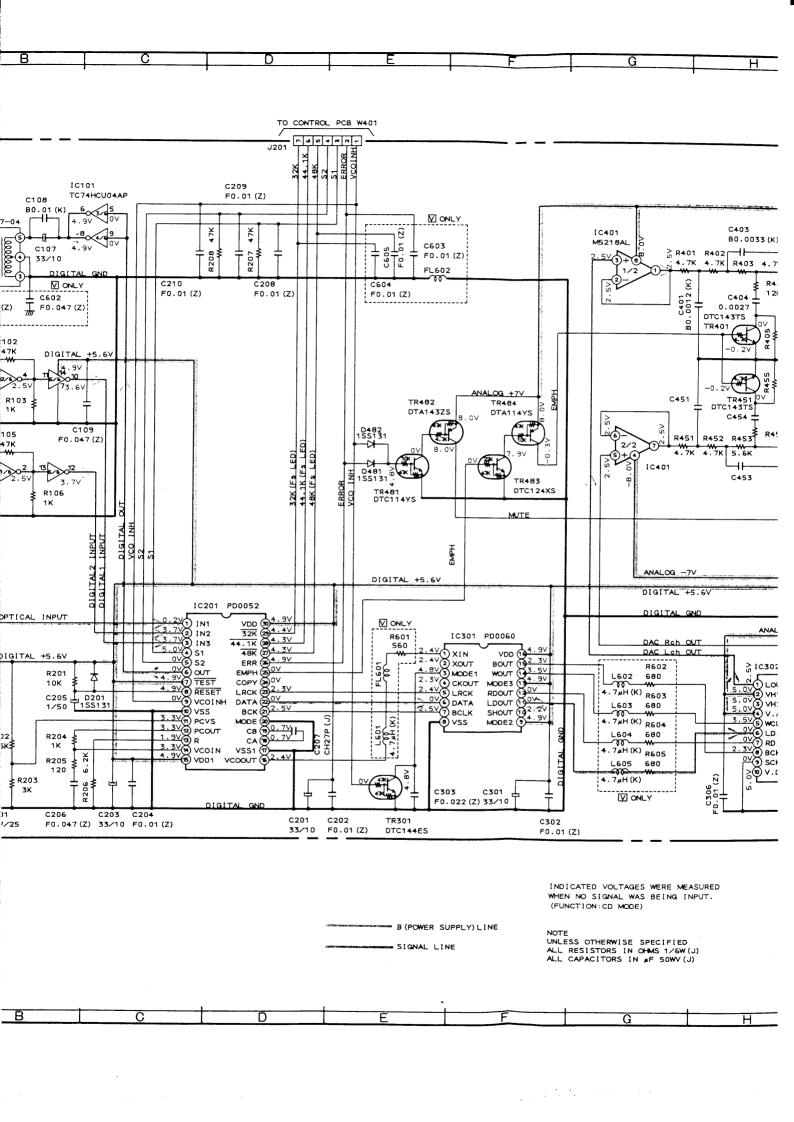


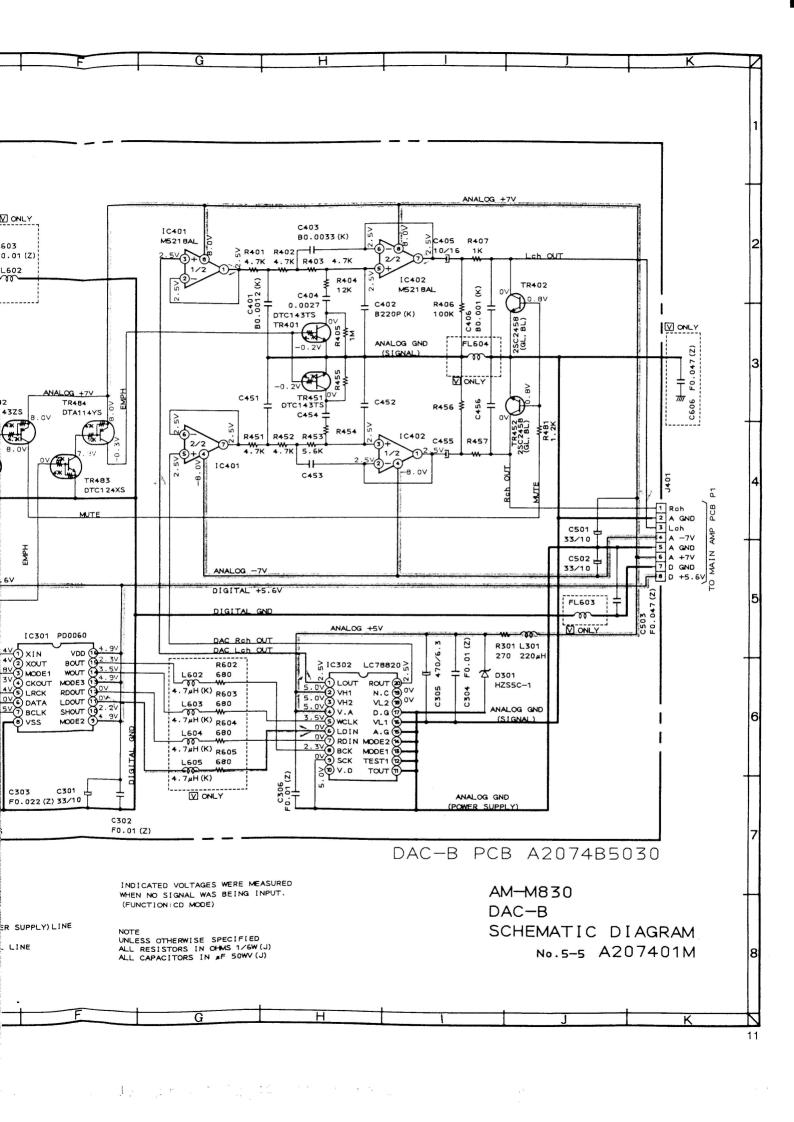


IC2....B3 IC3.....B3 CONNECTORS IC1. ICS...A3 TR1.....A3 ...A1 TR7.....A3 TR8.....B2 ...B1 TR2.....B1 TR3.....B1 TR5.....A1B1 TRANSISTORS TR4.... TR8.... TR6... TR10. TR12. TR11

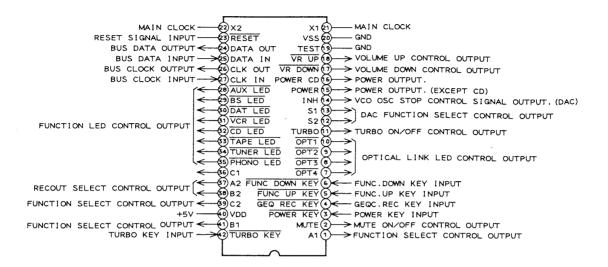








LC6520-4649 (MI-CON)



LC78820 (18 BIT D / A CONVERTER)

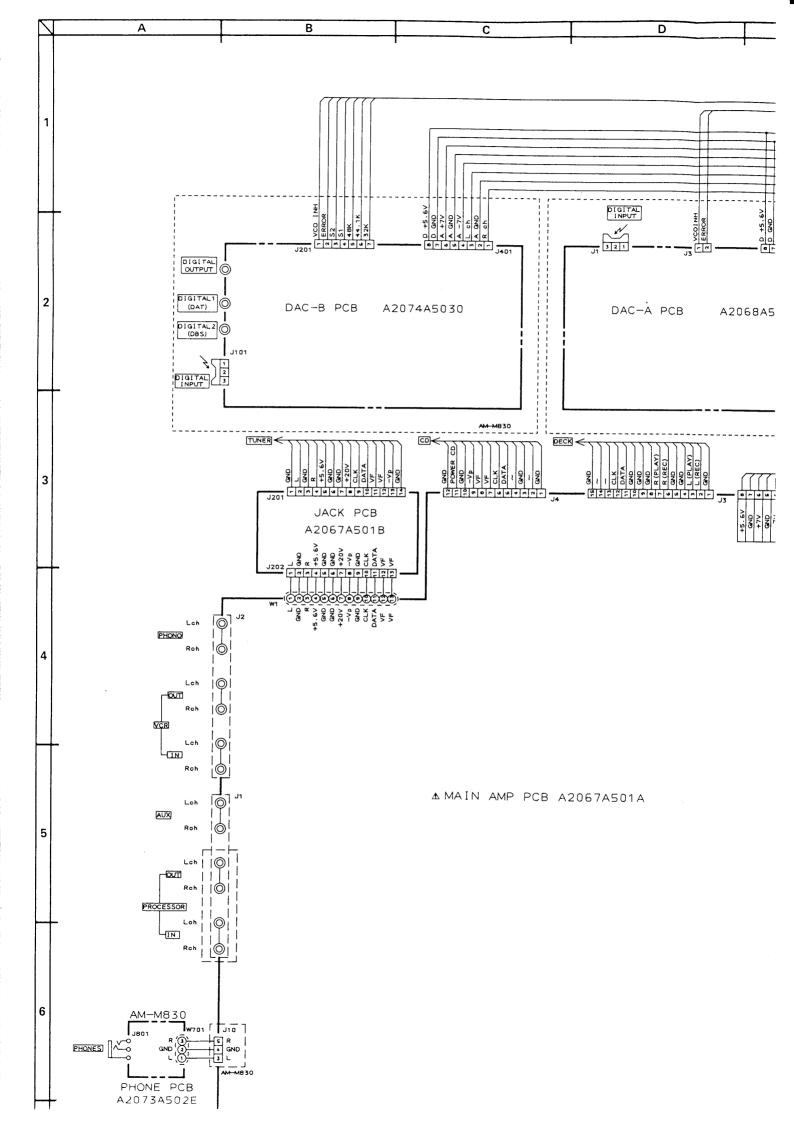
PIN NO	SYMBOL	1/0	DESCRIPTION
PIN NO			
1	L OUT	0	L ch output
2	VH 1		Reference voltage "H" input 1
3	VH 2		Reference voltage "H" input 2 (Not used)
4	V.A	-	Analog +B (+5 V)
5	W CLK	l	Word clock input
6	LD IN	_	L ch digital audio data input (MSB first)
7	RD IN		R ch digital audio data input (MSB first)
8	BCK		Bit clock input
9	SCK	I	System clock input
10	V.D	-	Digital +B (+5V)
11	T OUT	0	Test output (normal:open)
12	TEST 1	1	Test input (normal:GND)
13	MODE 1	1	Interface select
14	MODE 2		Interface select
15	A.G	-	Analog GND
16	VL 1	ł	Reference voltage "L" input 1 (Not used)
17	D.G	-	Digital GND
18	VL 2		Reference voltage "L" input 2 (Not used)
19	N.C	-	No connection (Not used)
20	R OUT	0	R ch output

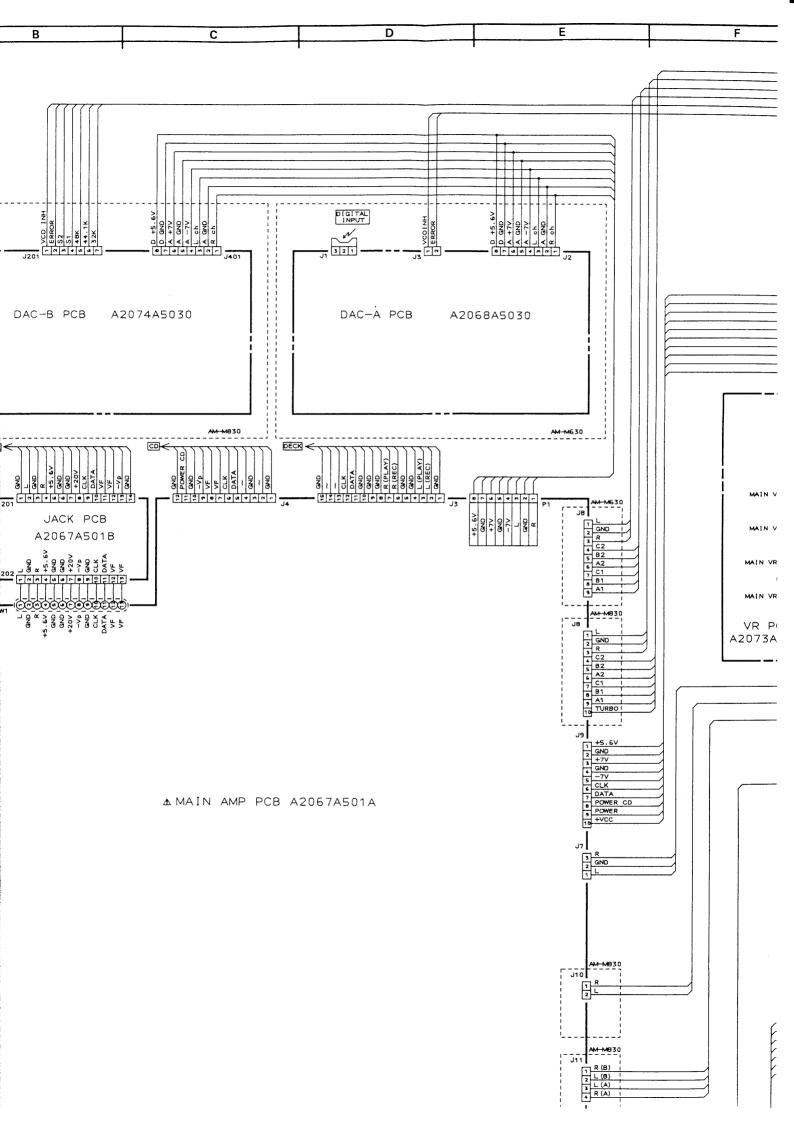
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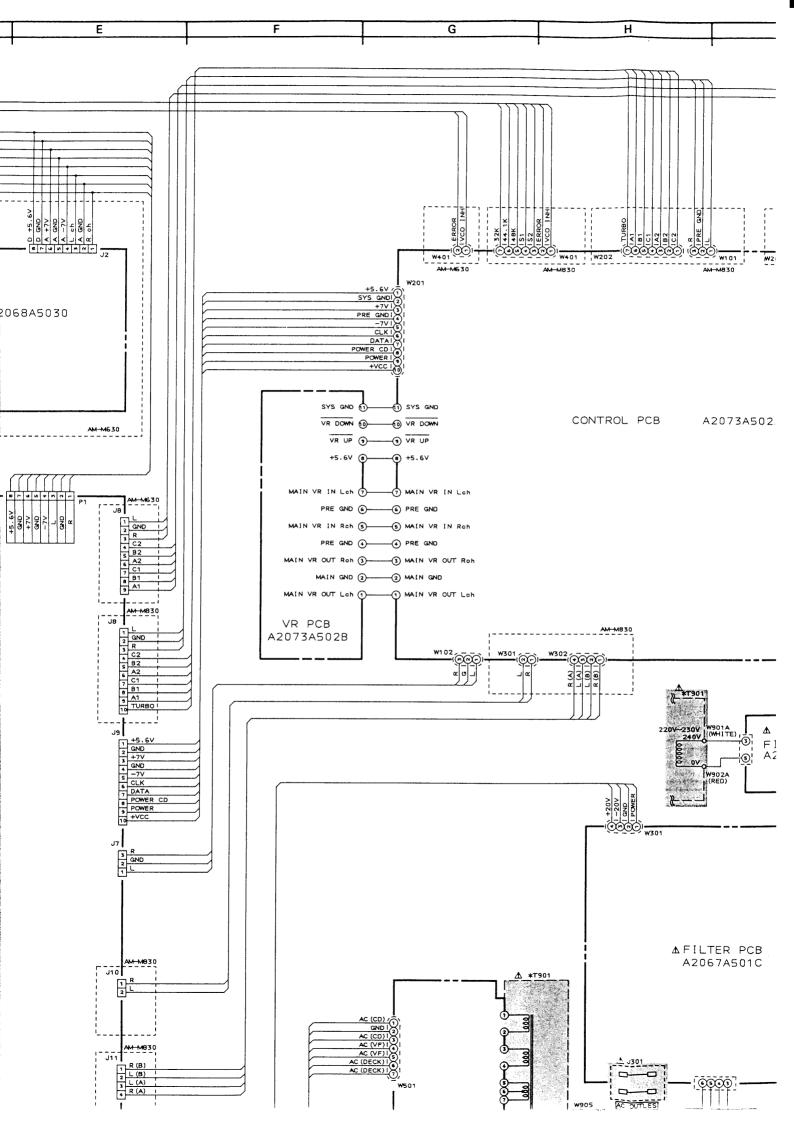
PIN NO	SYMBOL	1/0	DESCRIPTION
1	XIN	I	X'tal osc input
2	X OUT	0	X'tal osc output (Not used)
3	CKSL	1	Clock select H: 16.9344MHz
			L : 8.4672MHz
4	СКО	0	Clock output (Not used)
5	LRCK	1	L, R clock input
6	DATA	1	serial data input (MSB first)
7	BCLK	1	Bit clock input for input data
8	Vss	-	GND
9	LCO	0	Clock output for 2 DAC type (Not used)
10	SHR	0	R ch sample hold pulse output
11	SHL	0	L ch sample hold pulse output
12	D OUT	0	Serial data output (MSB first)
13	W OUT	0	Word clock output (Not used)
14	LR DO	0	L,R select clock output
15	BOUT	0	Bit clock output for data output
16	VDD	-	+B (+5 V)

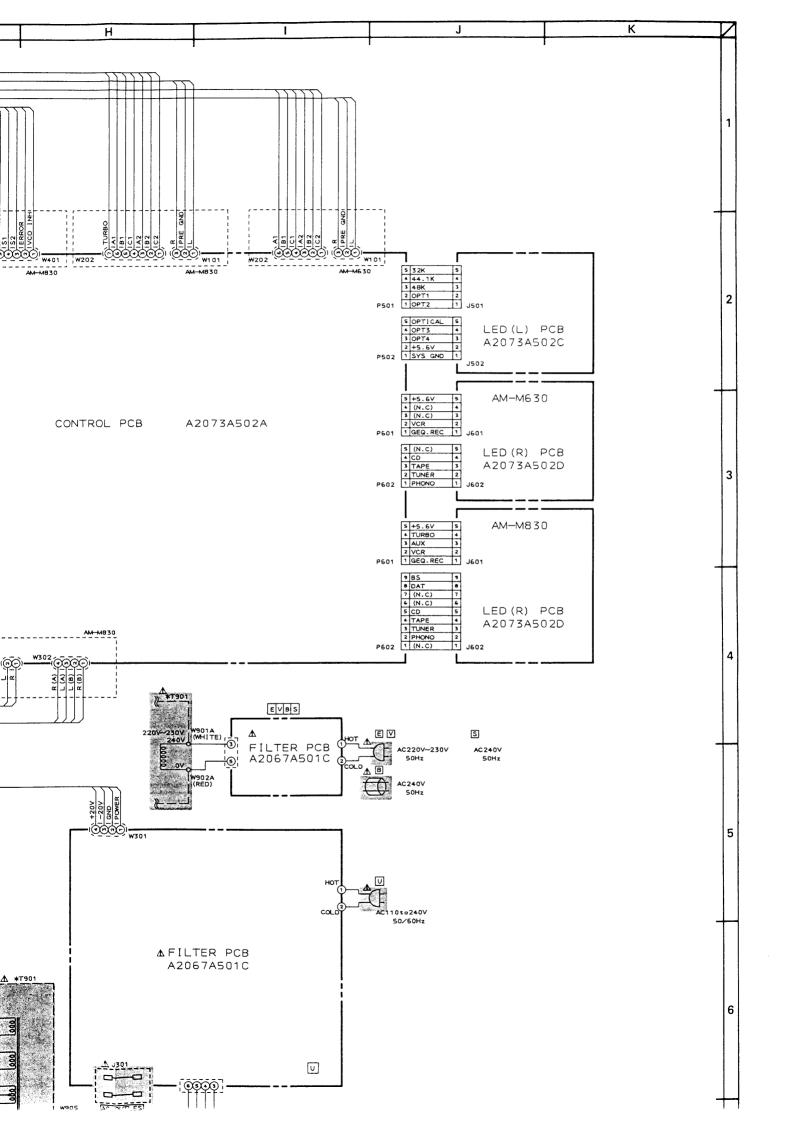
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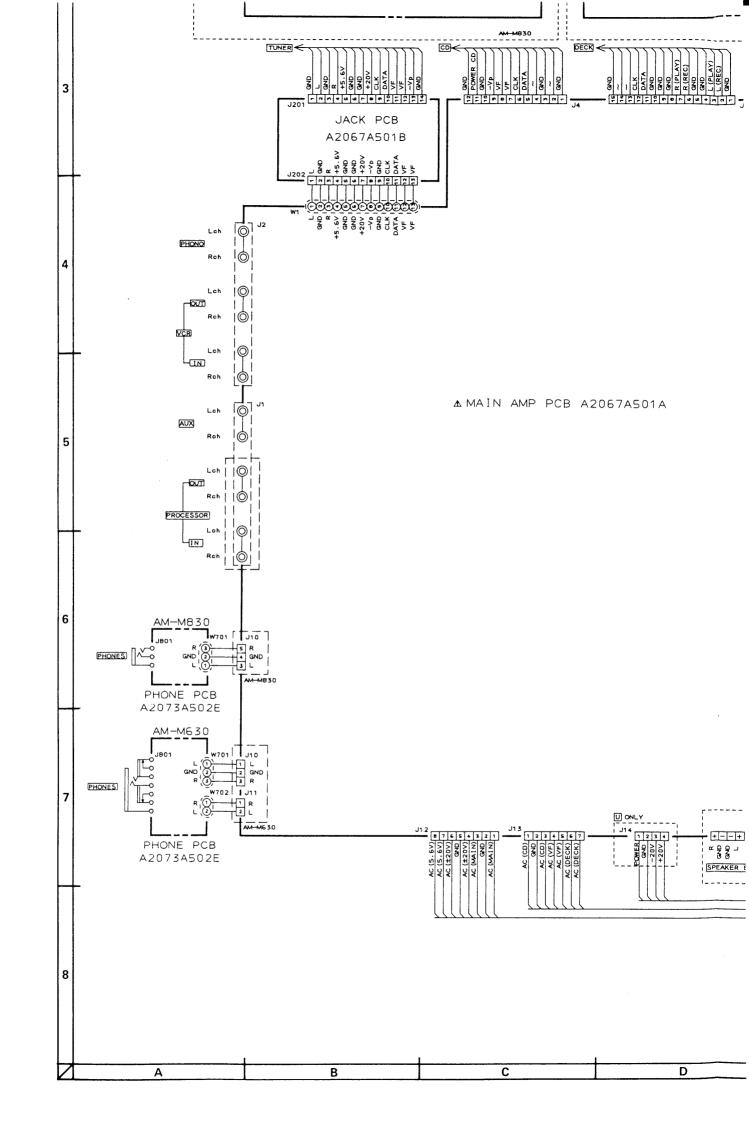
PIN NO	SYMBOL	1/0	DESCRIPTION
1	X IN	1	X'tal osc or external input
2	X OUT	0	X'tal osc output (Not used)
3	MODE 1	1	Master clock input and clock output select
4	CK OUT	0	External clock output (Not used)
5	LR CK	- 1	L, R clock input
6	DATA	I	Serial data input (MSB first)
7	BCLK	1	Bit clock input for input data
8	Vss	-	GND
9	MODE 2	1	H: 18bit data output
		Ì	L: 16bit data output
10	SHOUT	0	Sample hold pulse output (Not used)
11	LD OUT	0	L ch data output (MSB first)
12	RD OUT	0	R ch data output (MSB first)
13	MODE 3	1	H: 18 or 16 bit data output
			L : 20 bit data output
14	W OUT	0	Word clock output
15	BOUT	0	Bit clock output for L, R data output
16	VDD	-	+B (+5 V)

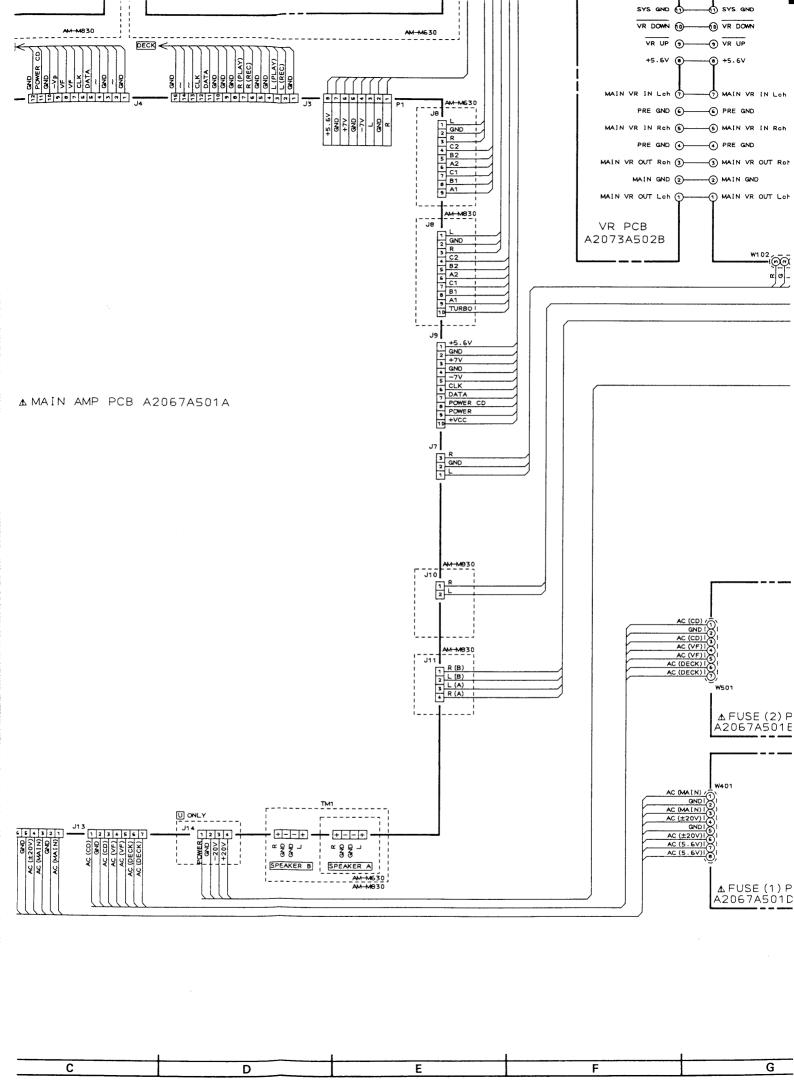


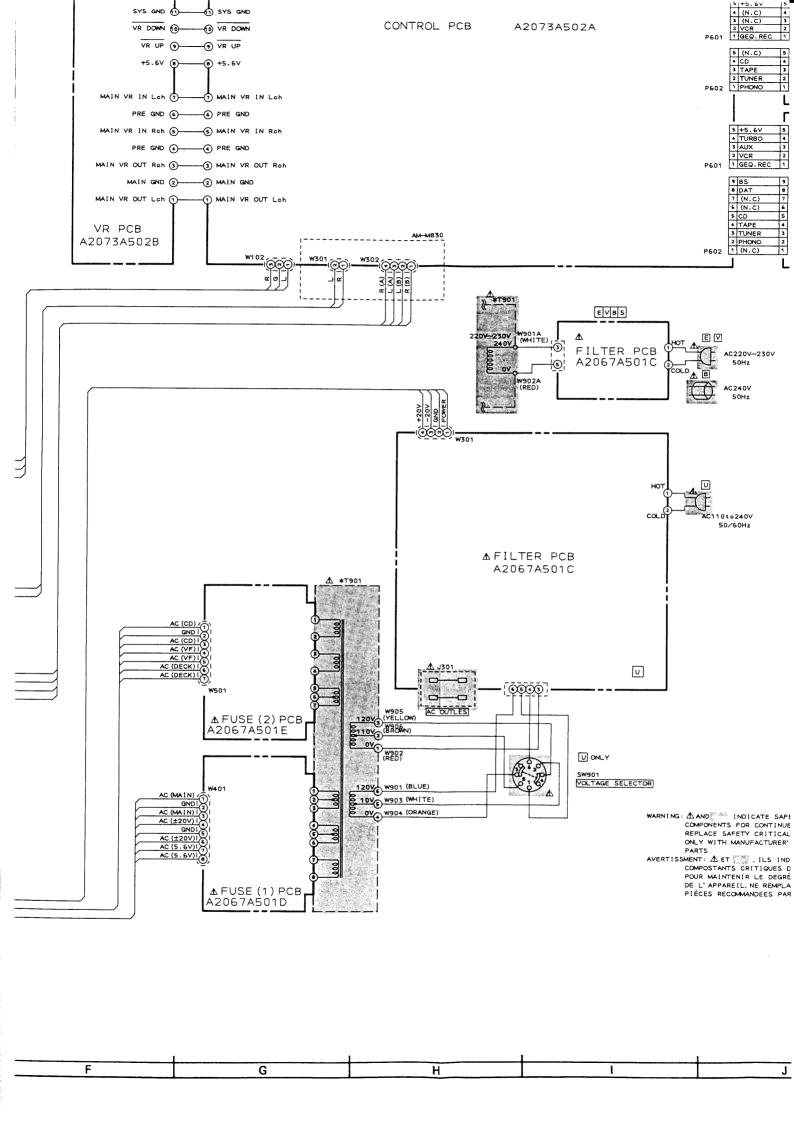


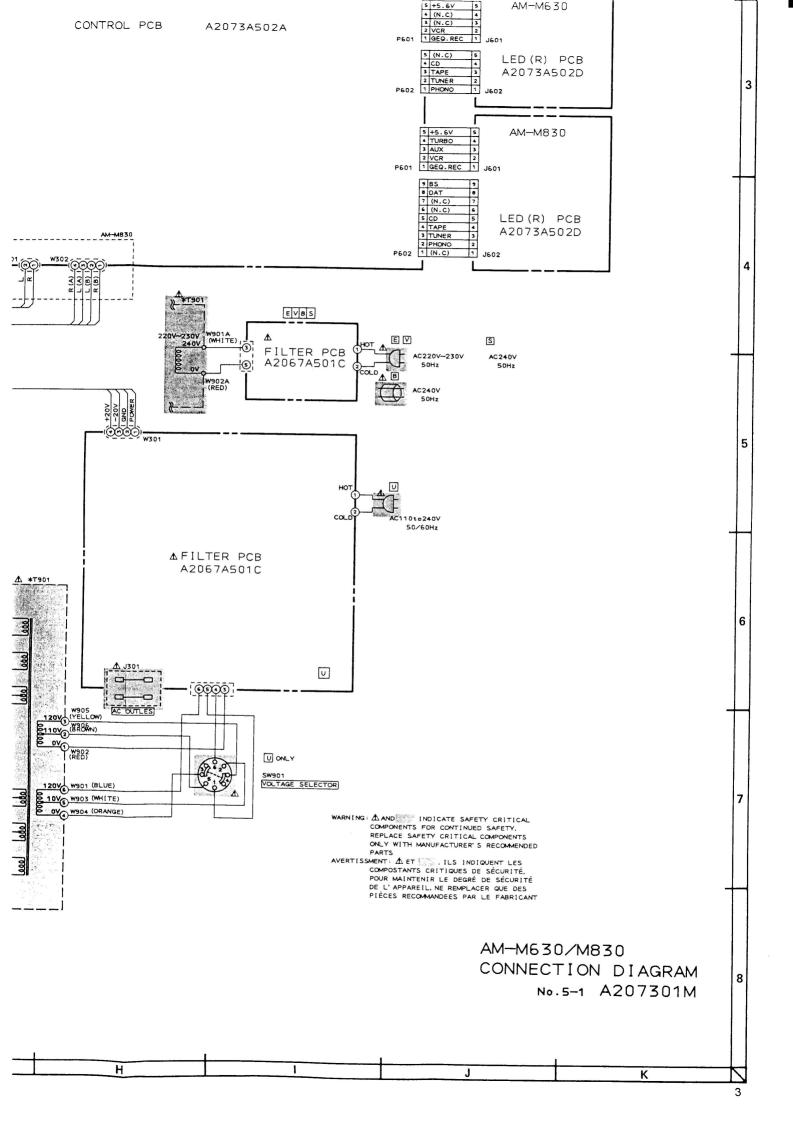


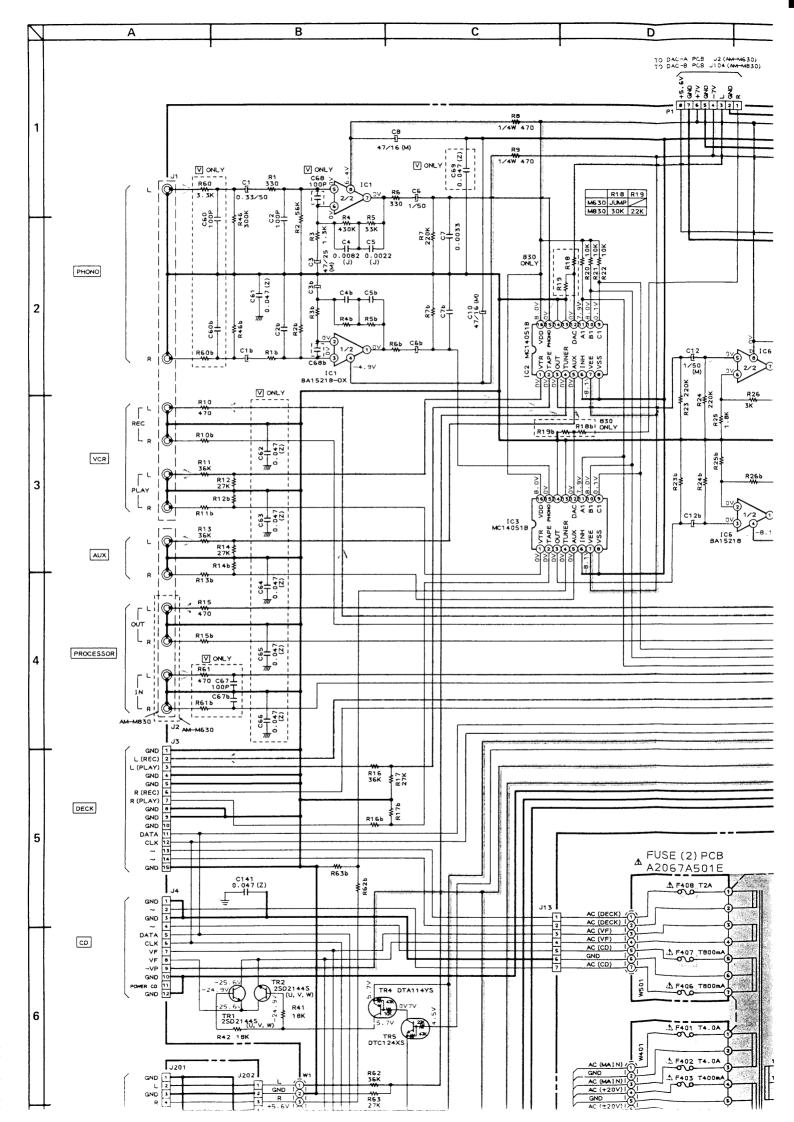


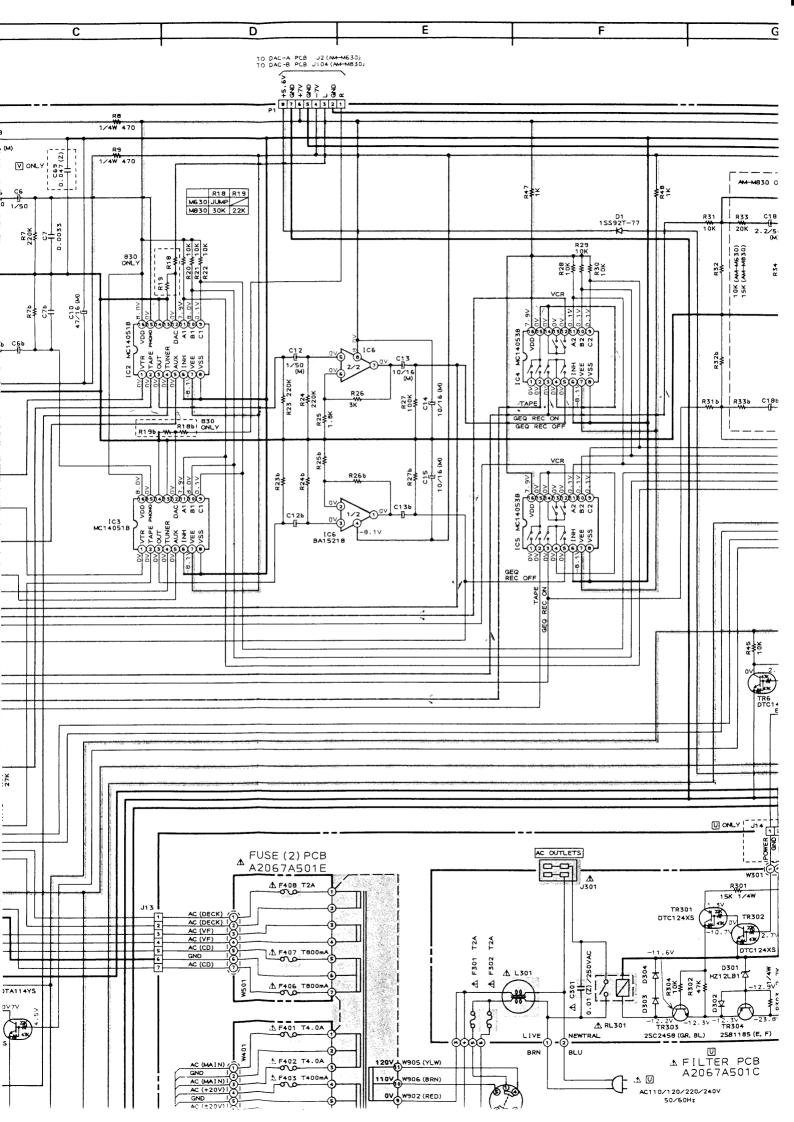


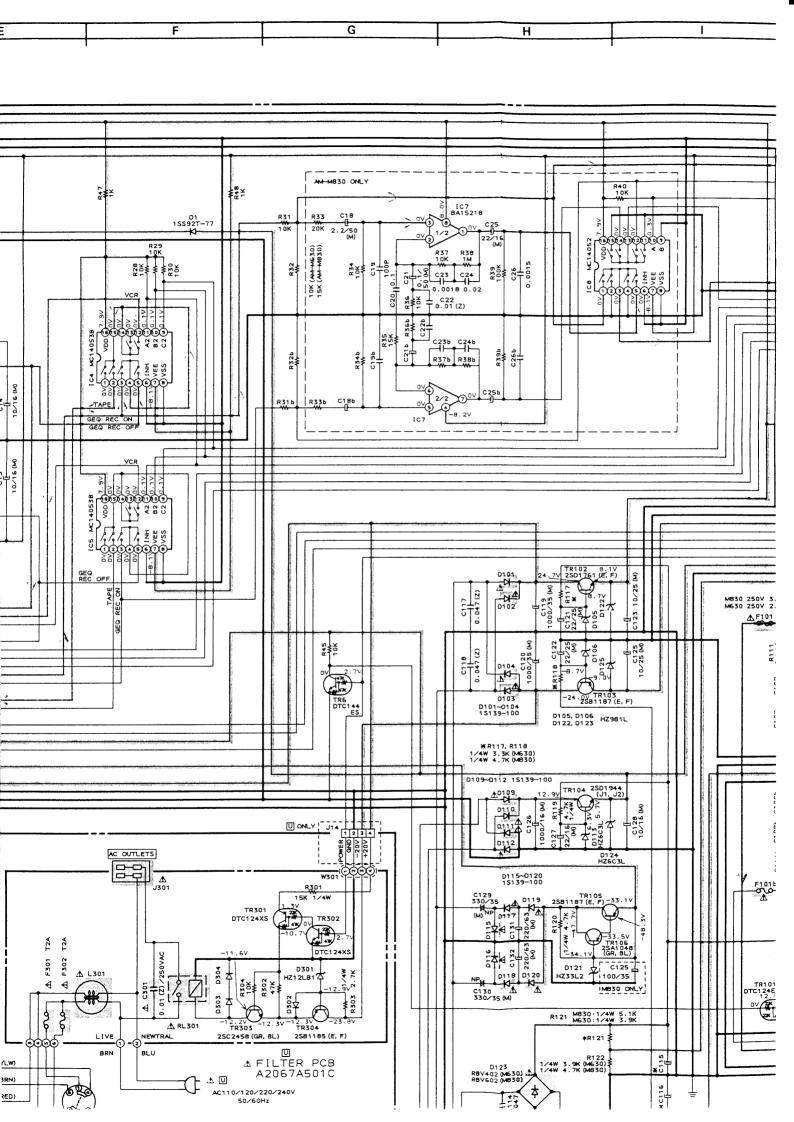


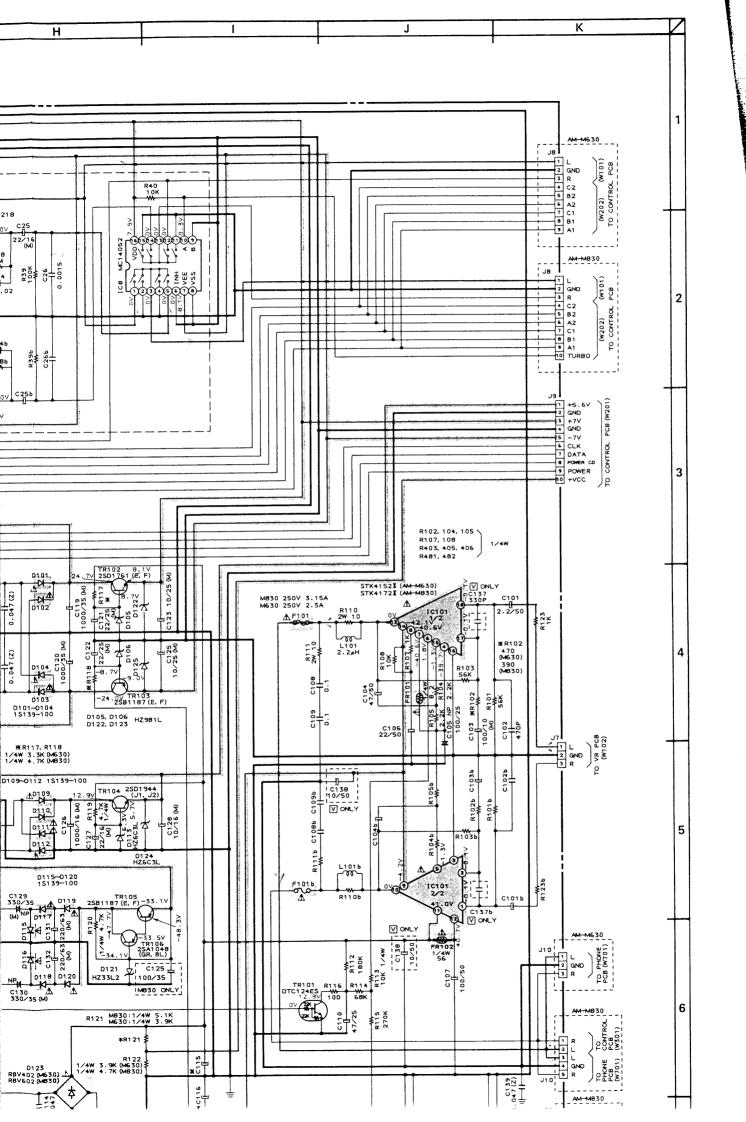


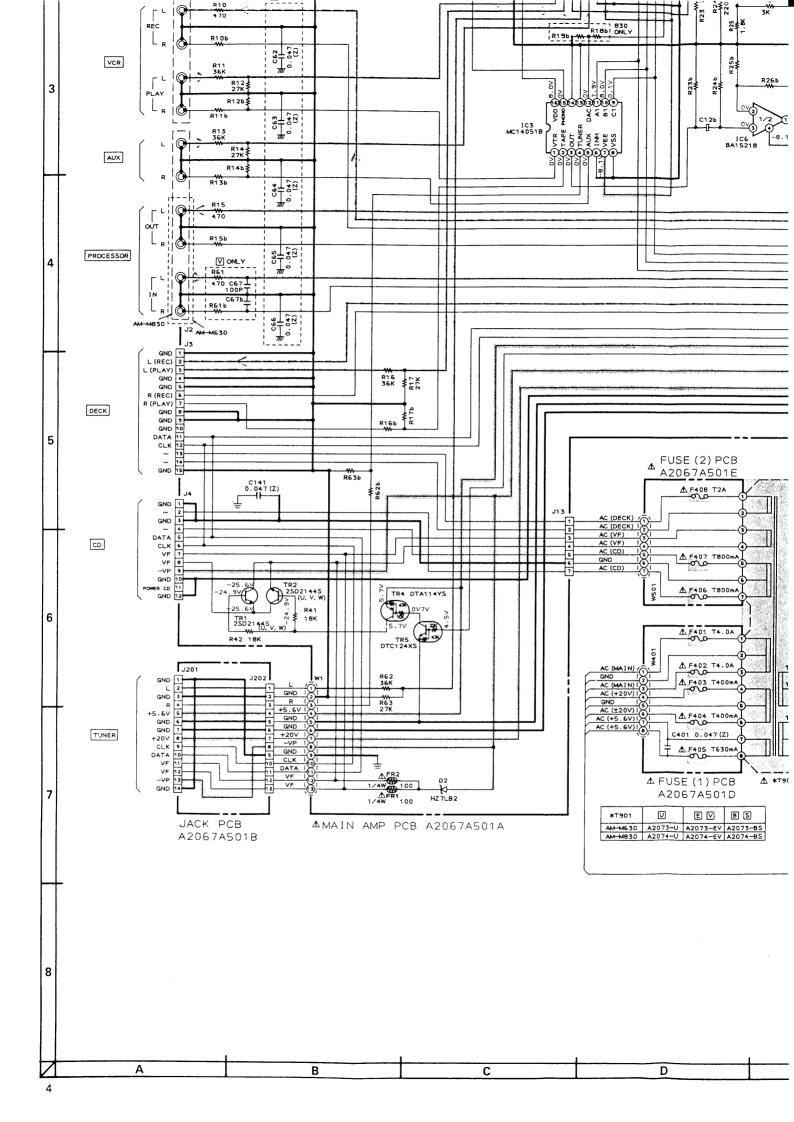


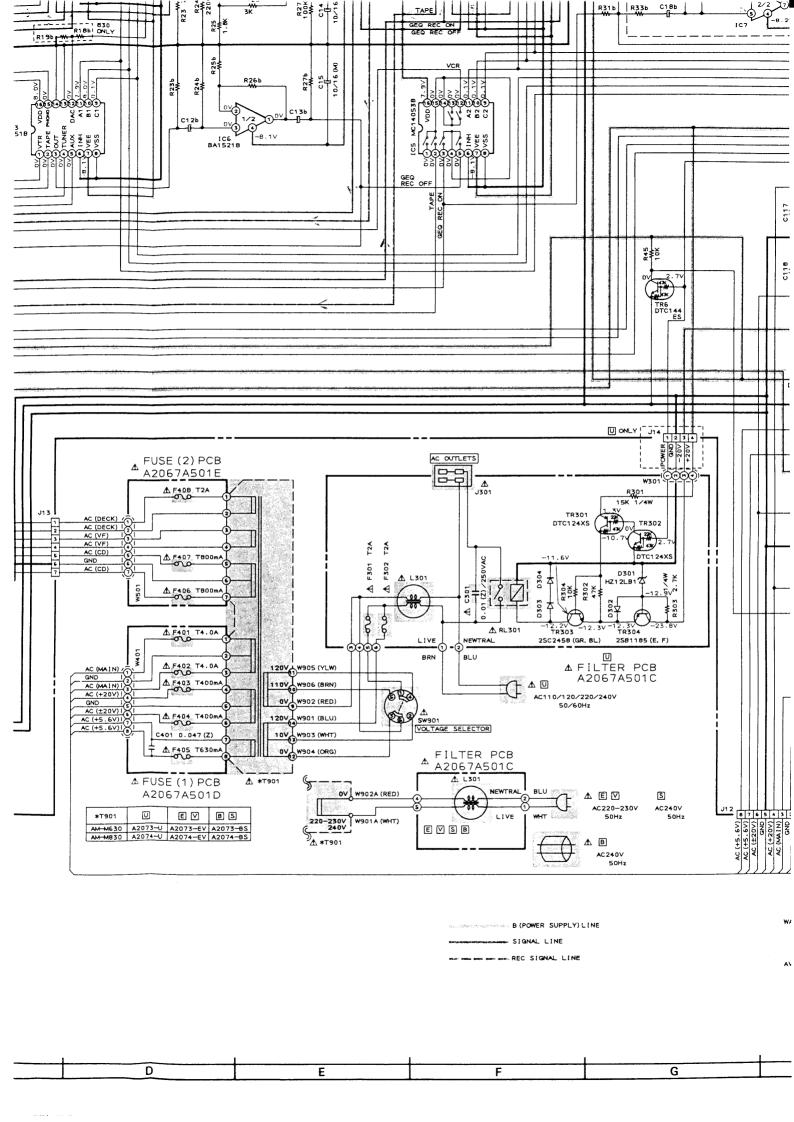


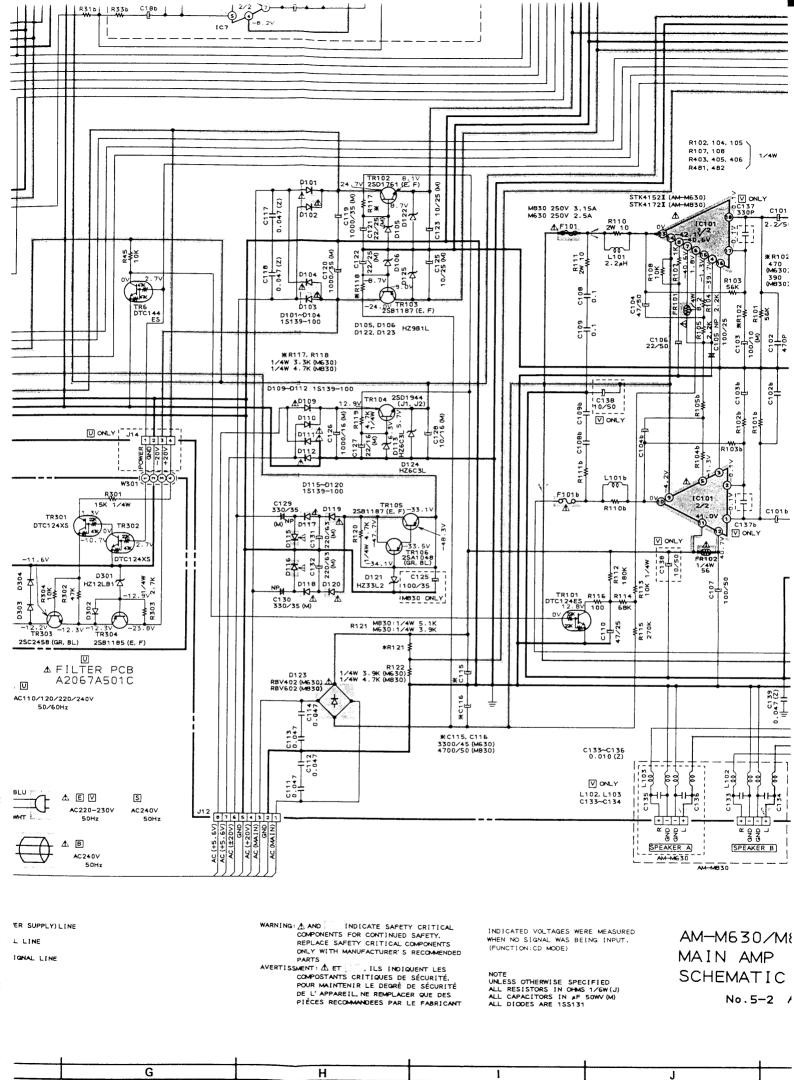


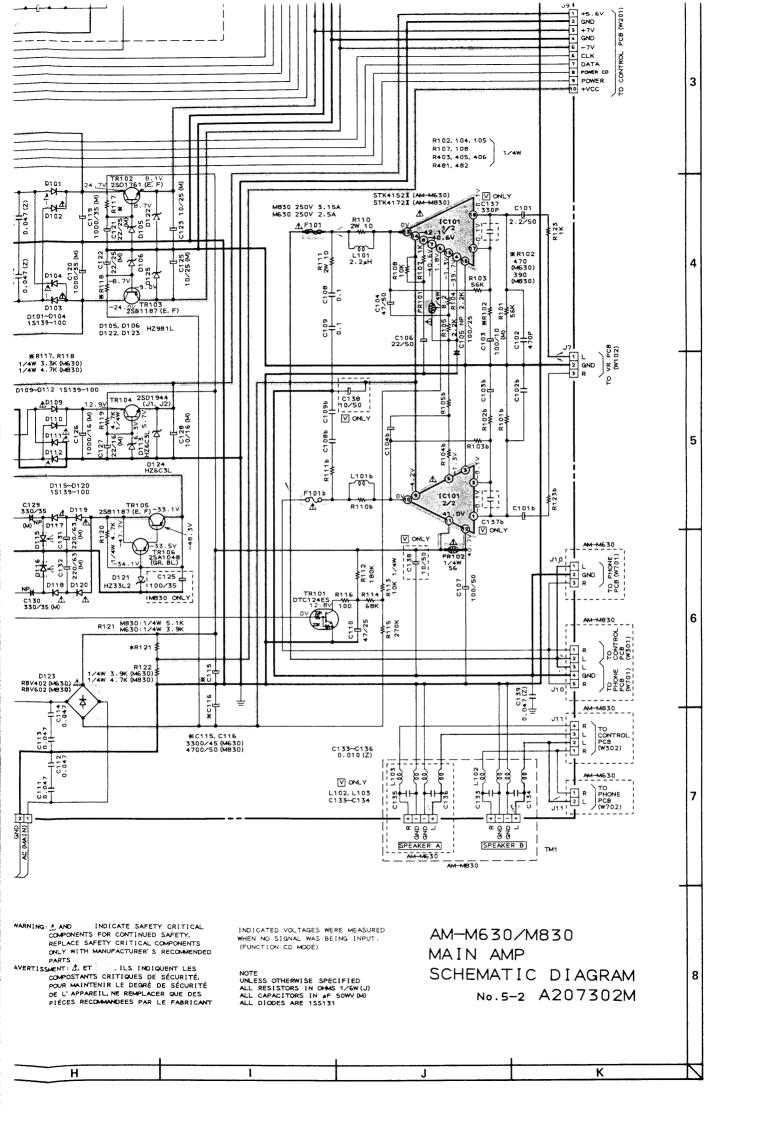


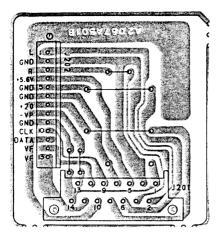




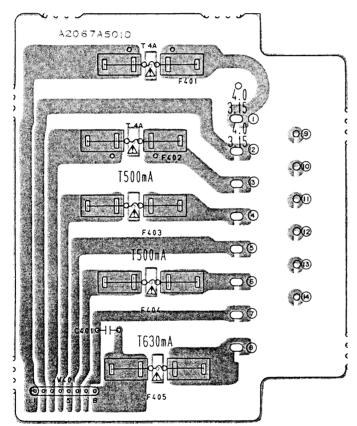




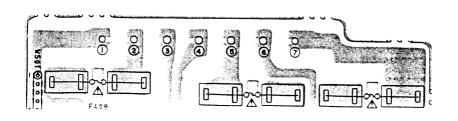




JACK PCB A2067A501B

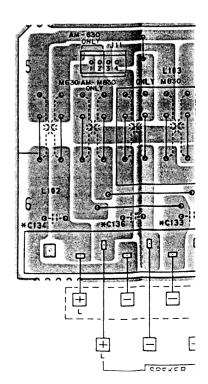


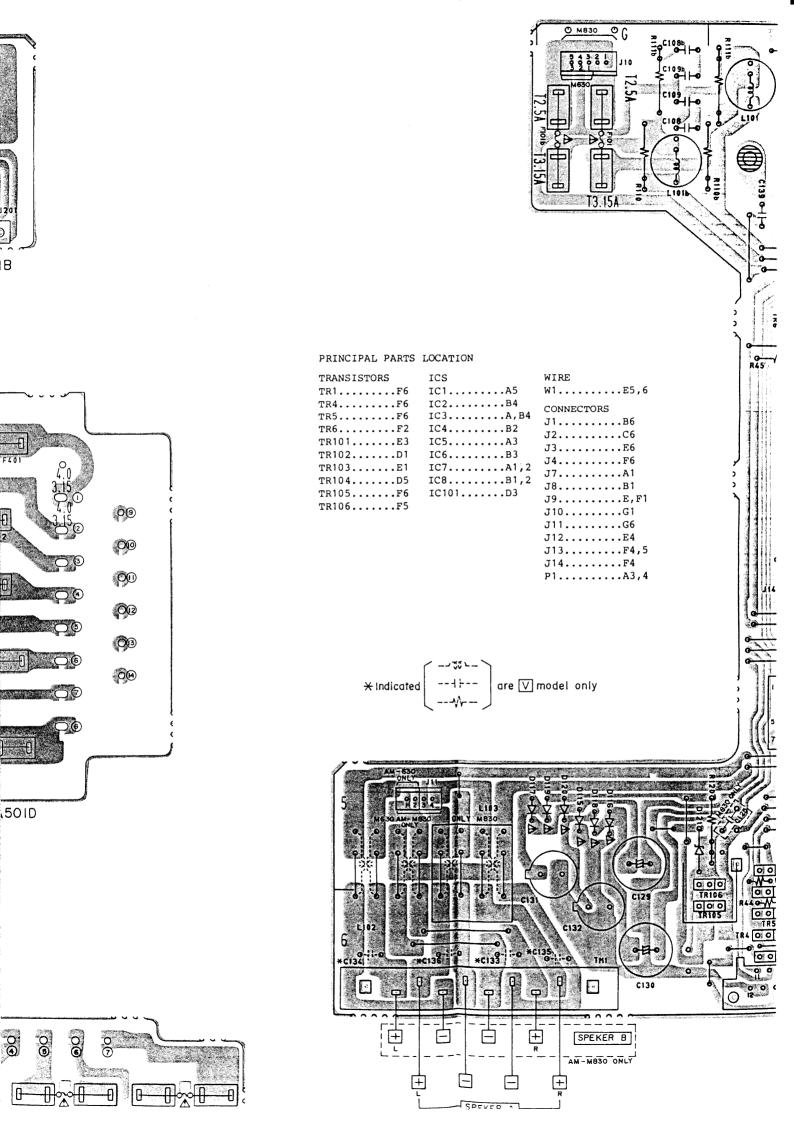
FUSE I PCB A2067A50ID

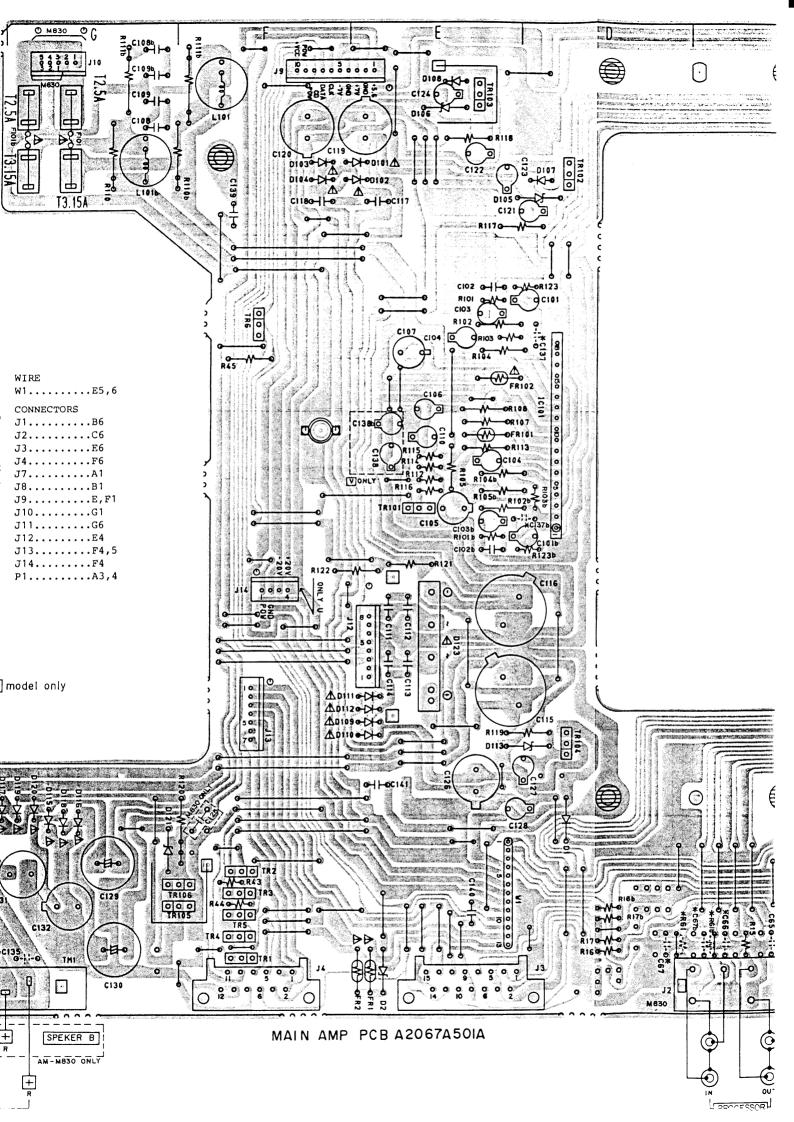


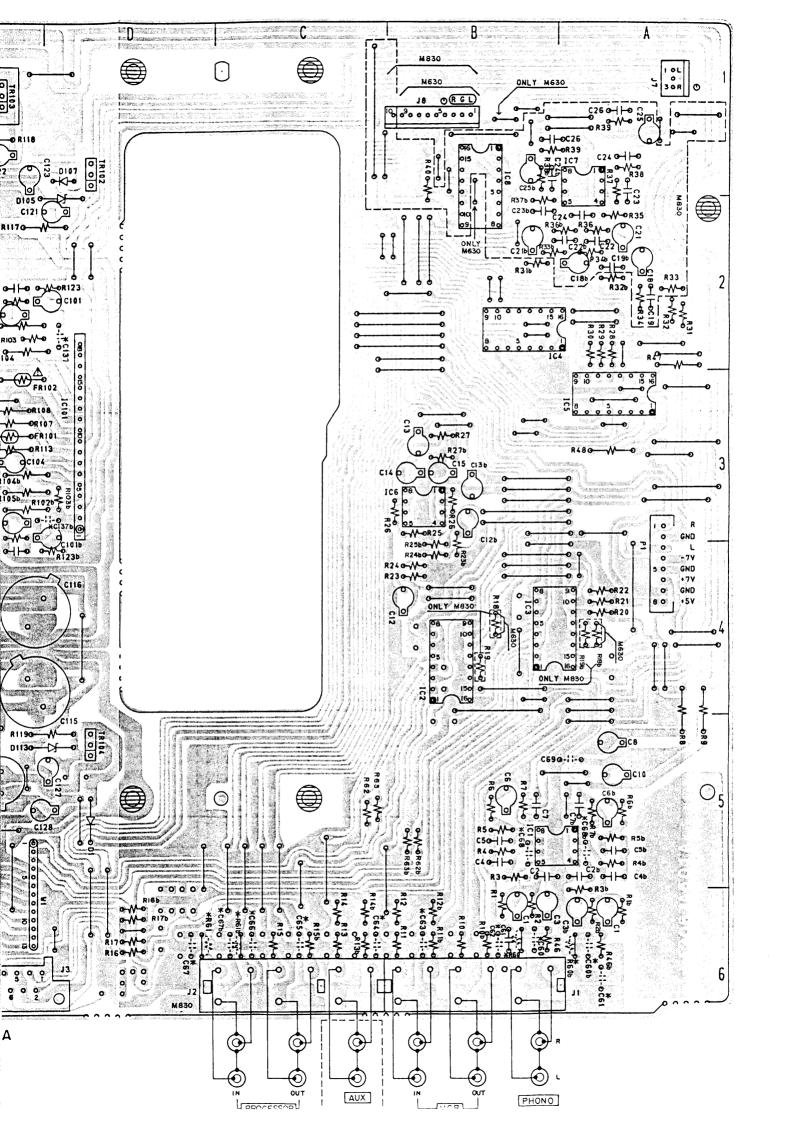
PRINCIPAL PARTS LOCATION

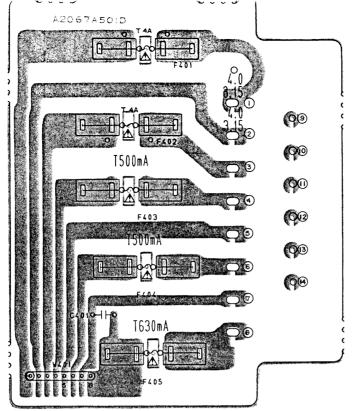
TRANSISTORS	ICS
TR1F6	IC1A
TR4	IC2B
TR5	IC3A
TR6F2	IC4B
TR101E3	IC5A
TR102D1	IC6B
TR103E1	IC7A
TR104D5	IC8B
TR105F6	IC101D
TR106F5	



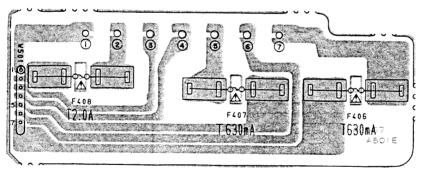








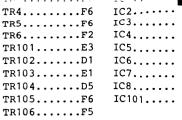
FUSE I PCB A2067A50ID

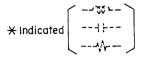


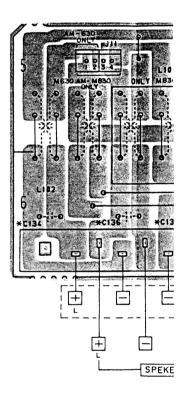
FUSE 2 PCB A2067A50IE

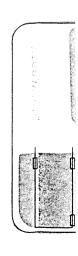
WARNING: AINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

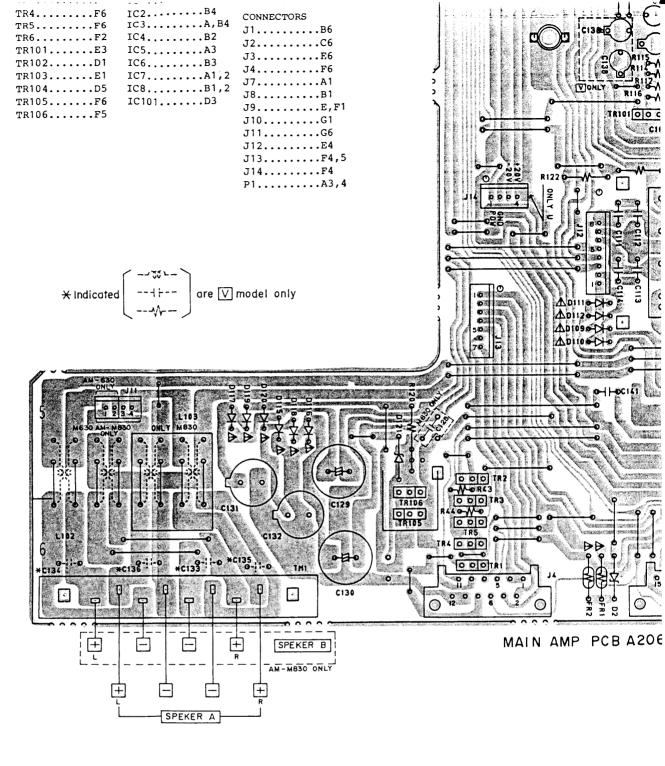
AVERTISSEMENT: ÂLI INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL. NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

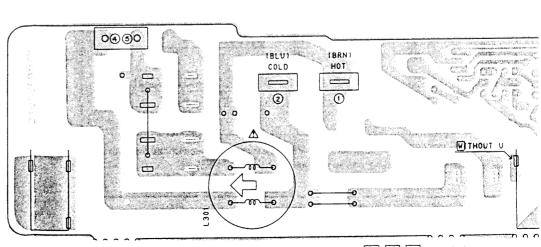










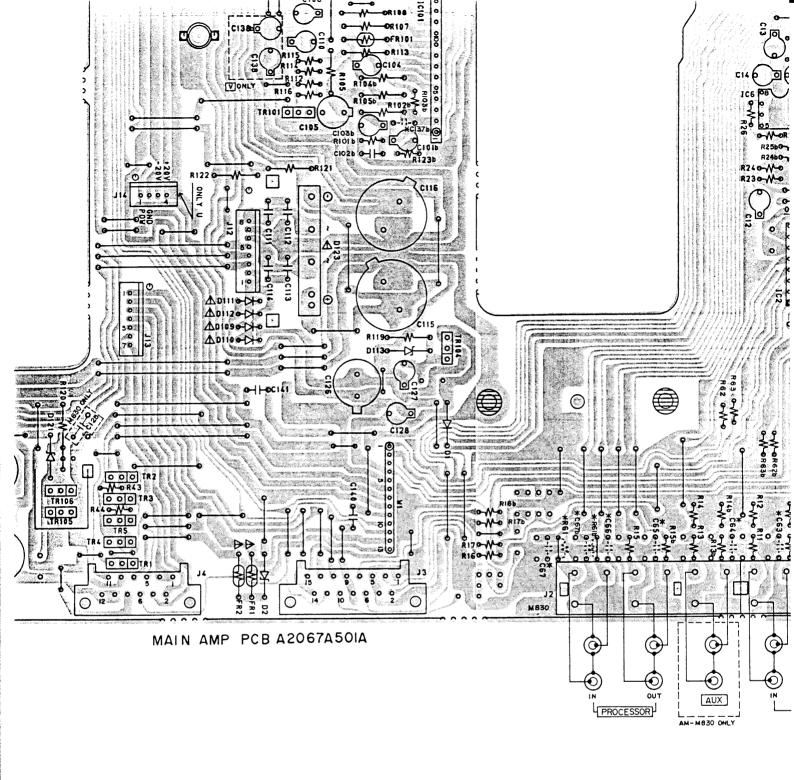


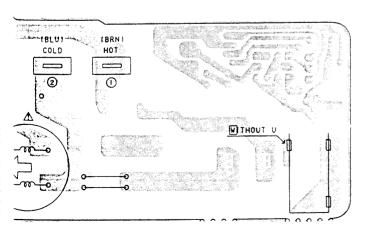
FILTER PCB A2067A50IC BEV model

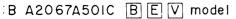


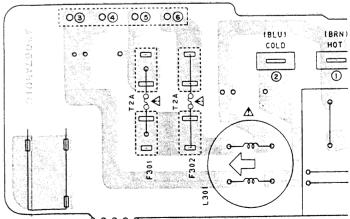
ETY, ?ER'S

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FILTER PCB A2067A50

